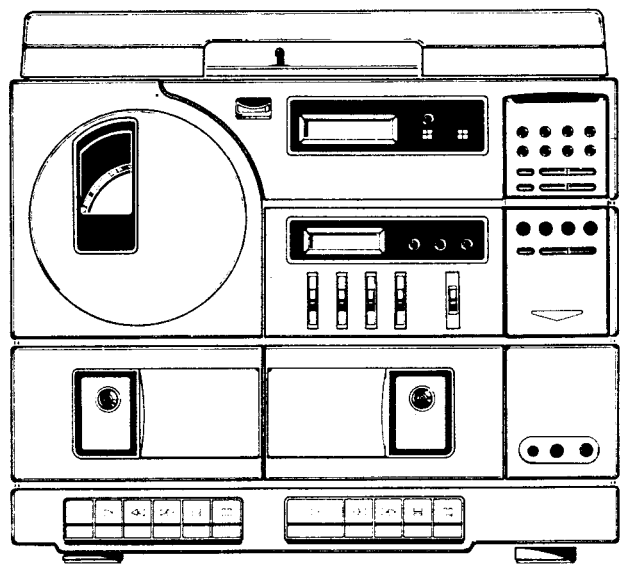
SAMSUNG

SERVICE MANUAL

MODEL : SCM-6100

STEREO MUSIC CENTER WITH COMPACT DISC PLAYER



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1. SPECIFICATIONS

1-1. RADIO/CASSETTE SECTION

A. LW SECTION

1) TUNING RANGE	:	146-290KHz
2) USABLE SENSITIVITY (S/N 20 dB)	:	1400 μV
3) S/N RATIO (1mV)	:	28 dB
4) IMAGE REJECTION	:	20 dB
5) IF REJECTION	:	25 dB

B. AM(MW) SECTION

1) TUNING RANGE	:	530 – 1610KHz 522 – 1611KHz
2) USABLE SENSITIVITY (S/N 20 dB)	:	700 μV
3) S/N RATIO (1mV)	:	30 dB
4) IMAGE REJECTION	:	30 dB
5) IF REJECTION	:	30 dB
6) THD	:	3.0 %
7) OVERLOAD DISTORTION (100mV, 80 % MOD)	:	8.0 %

C. FM SECTION

1) TUNING RANGE	:	87.5 – 108MHz (EUROPE) 87.9 – 107.9MHz (USA)
2) USABLE SENSITIVITY	:	6 μV
3) S/N RATIO	:	40 dB
4) IMAGE REJECTION	:	20 dB
5) IF REJECTION	:	45 dB
6) THD (MONO)	:	0.5 %
7) AUDIO FIDELITY (60Hz – 10KHz)	:	$\pm$2 dB
8) AM SUPPERESSION (1mV)	:	30 dB

D. TAPE SECTION

a) PLAY BACK

1) FREQUENCY RESPONSE	:	125Hz ~ 8000Hz
2) SEPARATION	:	35 dB
3) S/N RATIO	:	30 dB
4) THD	:	4 %

b) RECORD/PLAYBACK

1) FREQUENCY RESPONSE	:	125 ~ 6300Hz
2) SEPARATION	:	30 dB
3) S/N RATIO	:	25 dB
4) T.H.D	:	6.0 %
5) ERASING EFFECT (1KHz)	:	50 dB

E. AUDIO SECTION

1) OUTPUT POWER	:	5W (THD 10%)
2) GRAPHIC EQ CONTROL 100Hz, 1KHz, 10KHz: ±6.5 ±3 dB		
3) S/N RATIO	:	50 dB
4) CHANNEL SEPARTION	:	40 dB

1-2. COMPACT DISC PLAYER

CD SECTION

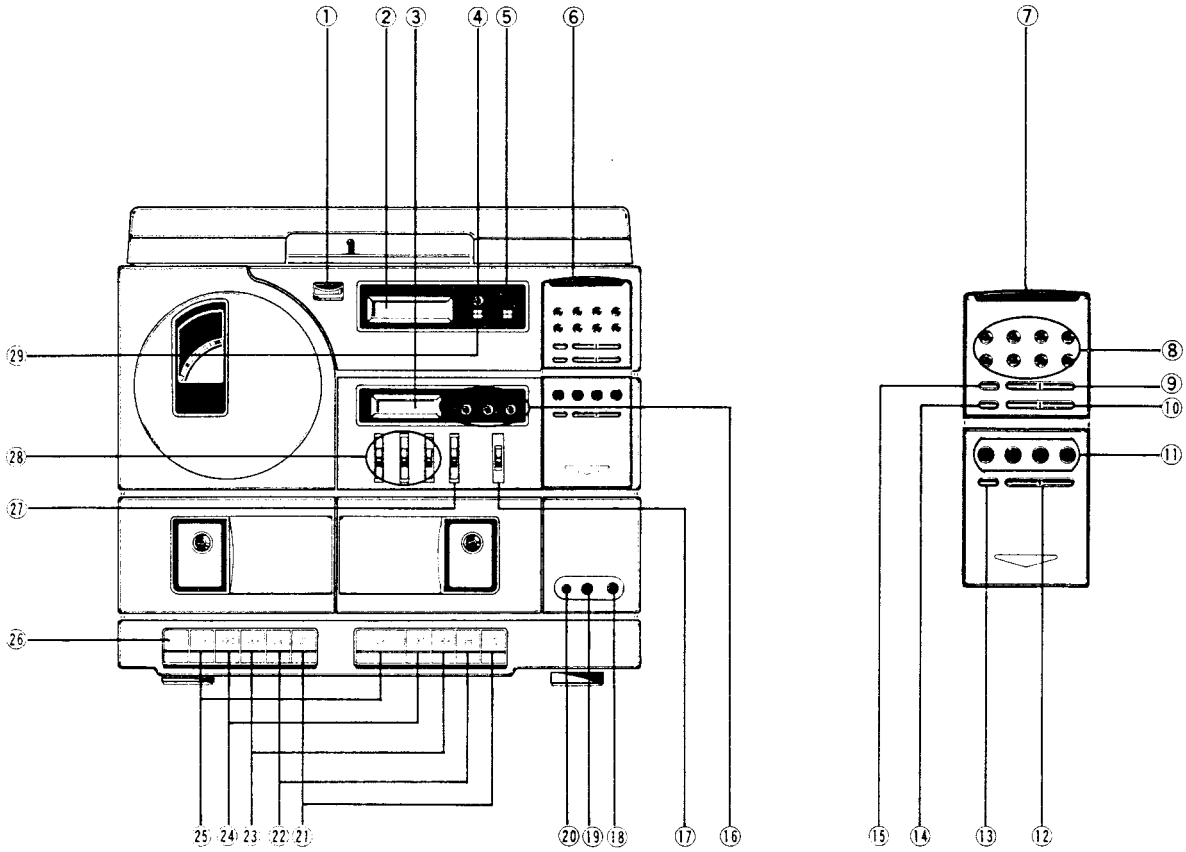
1) FREQUENCY RESPONSE	:	20 ~ 20KHz
2) S/N RATIO	:	70 dB
3) CHANNEL SEPARATION	:	50 dB
4) THD (1KHz)	:	0.08 %
5) SEARCH TIME	:	8 SEC

1-3. GENERAL

1) DIMENSION	:	350(W) x 310(H) x 290(D)
2) NET WEIGHT	:	4.7 Kg

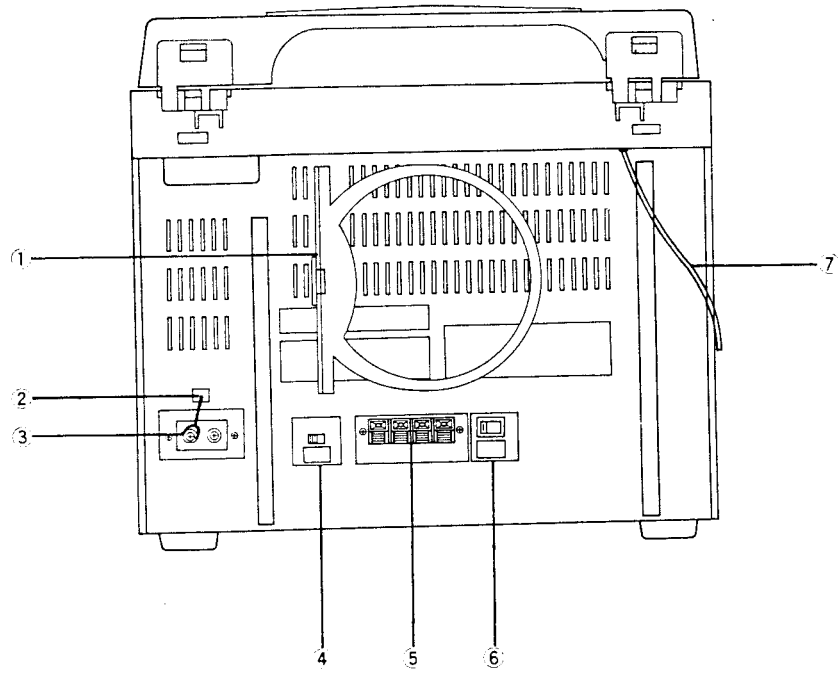
2. LOCATION AND FUNCTION

2-1. FRONT



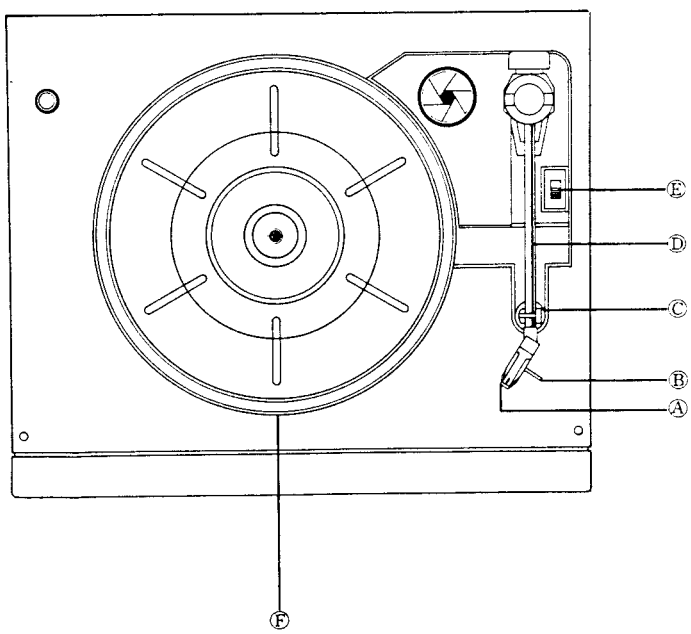
1. CD EJECT BUTTON
2. TUNER/CLOCK/TIMER DISPLAY
3. CD FUNCTION DISPLAY
4. MODE SWITCH (MONO/STEREO)
5. POWER INDICATOR
6. REMOTE CONTROL SENSOR
7. INFRARED TRANSMIT WINDOW
8. PRE-SET STATION BUTTONS
9. BAND & DISPLAY BUTTONS
10. TUNING UP/DOWN BUTTONS
11. TUNING UP/DOWN BUTTONS
12. VOLUME UP/DOWN BUTTONS
13. POWER ON/OFF BUTTON
14. AUTO TUNING BUTTON (AUTO/MANUAL)
15. MEMORY (TIME, TIMER and TUNER PRESET) button
16. CD REPEAT, DISPLAY & PROGRAM/TIMER (ON/OFF) BUTTONS
17. FUNCTION SELECTION SWITCH
18. MIC JACK
19. HEADPHONE JACK
20. HI-SPEED DUBBING SWITCH
21. PAUSE (▮▮) button
22. STOP/EJECT (■) BUTTON
23. FAST FORWARD (▶▶) BUTTON
24. REWIND (◀◀) BUTTONS
25. PLAY (▶) BUTTON
26. RECORD (●) BUTTON
27. BALANCE
28. GRAPHIC EQUALIZER
29. FM STEREO INDICATOR

2-2. REAR



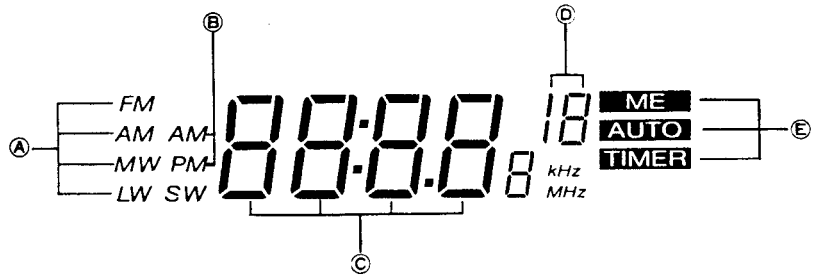
1. AM LOOP ANTENNA
2. FM ANTENNA HOLE
3. FM ANTENNA TERMINAL
4. BEAT CUT SWITCH (OPTION)
5. SPEAKER TERMINAL
6. VOLTAGE SELECTOR (OPTION)
7. POWER CORD

2-3. TURNTABLE



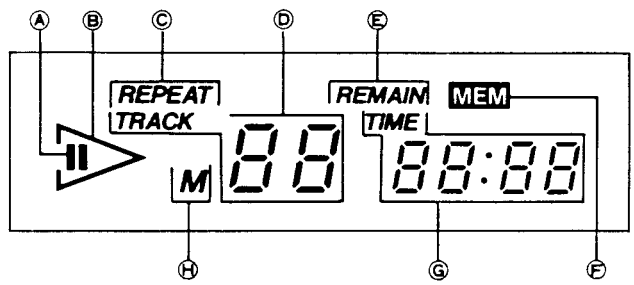
A. STYLUS PROTECTOR
B. HEAD SHELL
C. ARM-REST
The arm rest supports the tone arm. When you are not playing a record, keep the tone arm in the rest.
D. TONE ARM
E. SPEED SELECTOR
Either of two speeds, 33-1/3 rpm or 45 rpm can be selected with this switch.
F. PLATTER

2-4. TIMER AND TUNER FUNCTION DISPLAY



A. BAND INDICATOR (FM, AM/FM, MW, LW/FM, MW, SW).
B. AM, PM INDICATOR (TIME): DOESN'T APPEAR IN THE "00 ~ 24 HOUR" REGION.
C. FREQUENCY, OPERATING TIME, TIME INDICATOR
D. MEMORY NUMBER INDICATOR
E. MEMORY, AUTO, TIMER INDICATOR

2-5. CD FUNCTIONS DISPLAY INFORMATION

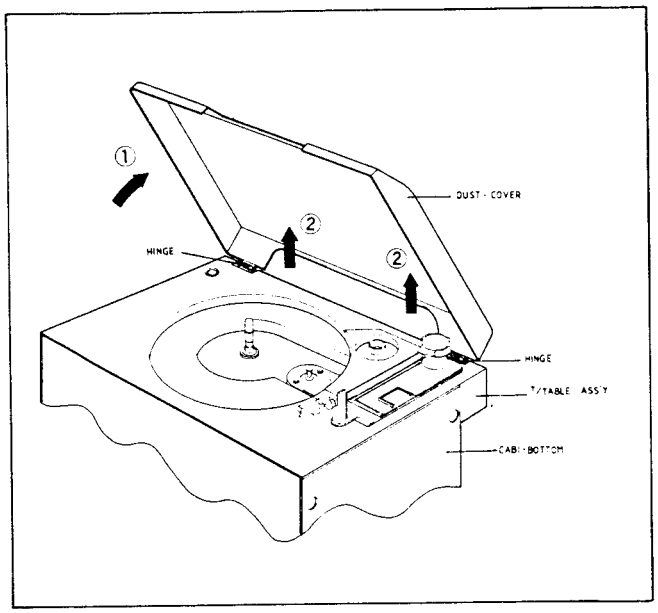


A. PAUSE INDICATOR	:	⏸ PAUSE STATE
B. PLAY INDICATOR	:	▷ PLAY STATE
C. REPEAT INDICATOR		
D. TRACK INDICATOR	:	Displays track number.
E. REMAIN INDICATOR	:	When you press the [DISPLAY] button, it displays the remaining tracks and time.
F. MEMORY PLAY INDICATOR	:	Displays " MEM " when the CDP plays the memorized tracks.
G. TIME INDICATOR	:	Displays the elapsed playback time. Displays the playback time remaining when [DISPLAY] button is pressed.
H. MEMORY INDICATOR	:	Displays "*M*" only when you memorize the track number.

3. DISASSEMBLY

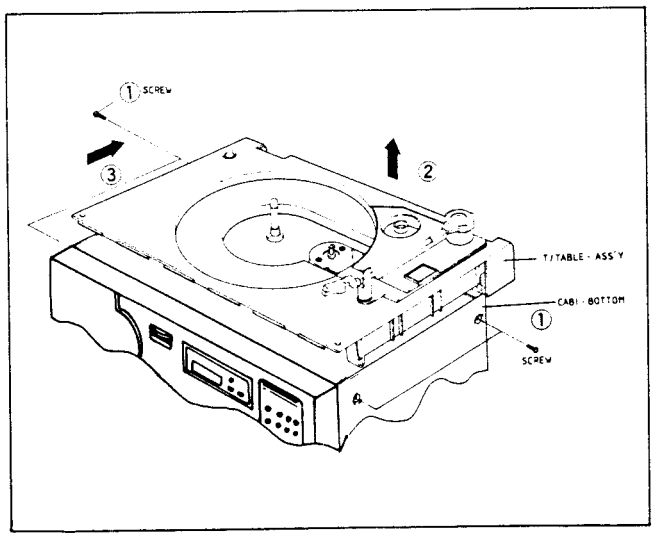
3-1. DISASSEMBLY OF DUST COVER

1) Open the Dust cover in the direction of ①
2) Disassemble the HINGE, in the direction of ②



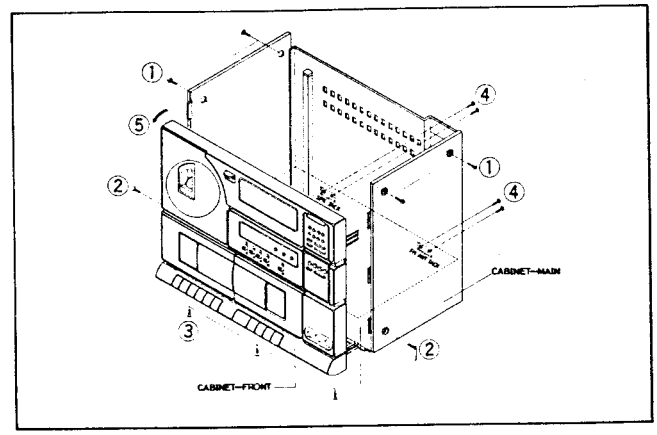
3-2. DISASSEMBLY OF TURN TABLE

1) Remove 4 screws ①
2) After lifting in direction of ② Disassemble in the direction of ③



3-3. DISASSEMBLY OF FRONT PANEL

1) Remove 2 screws ② and 3 screws ③
2) Remove 4 screws ④ from the rear panel.
3) Disassemble front in direction of ⑤



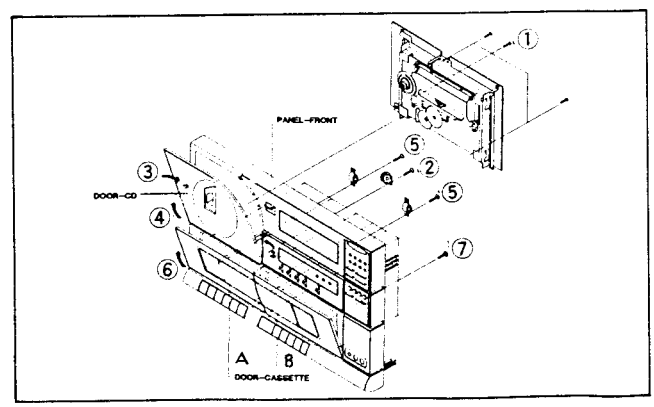
3-4. DISASSEMBLY OF DOOR

- DISASSEMBLY OF CD DOOR

1) Remove 3 screws ① and disassemble CD mechanism.
2) Remove 1 screws ② , and disassemble damper gear.
3) Open the CD door.
4) Press 2 lockers in direction of ③
5) Disassemble CD door in direction of ④

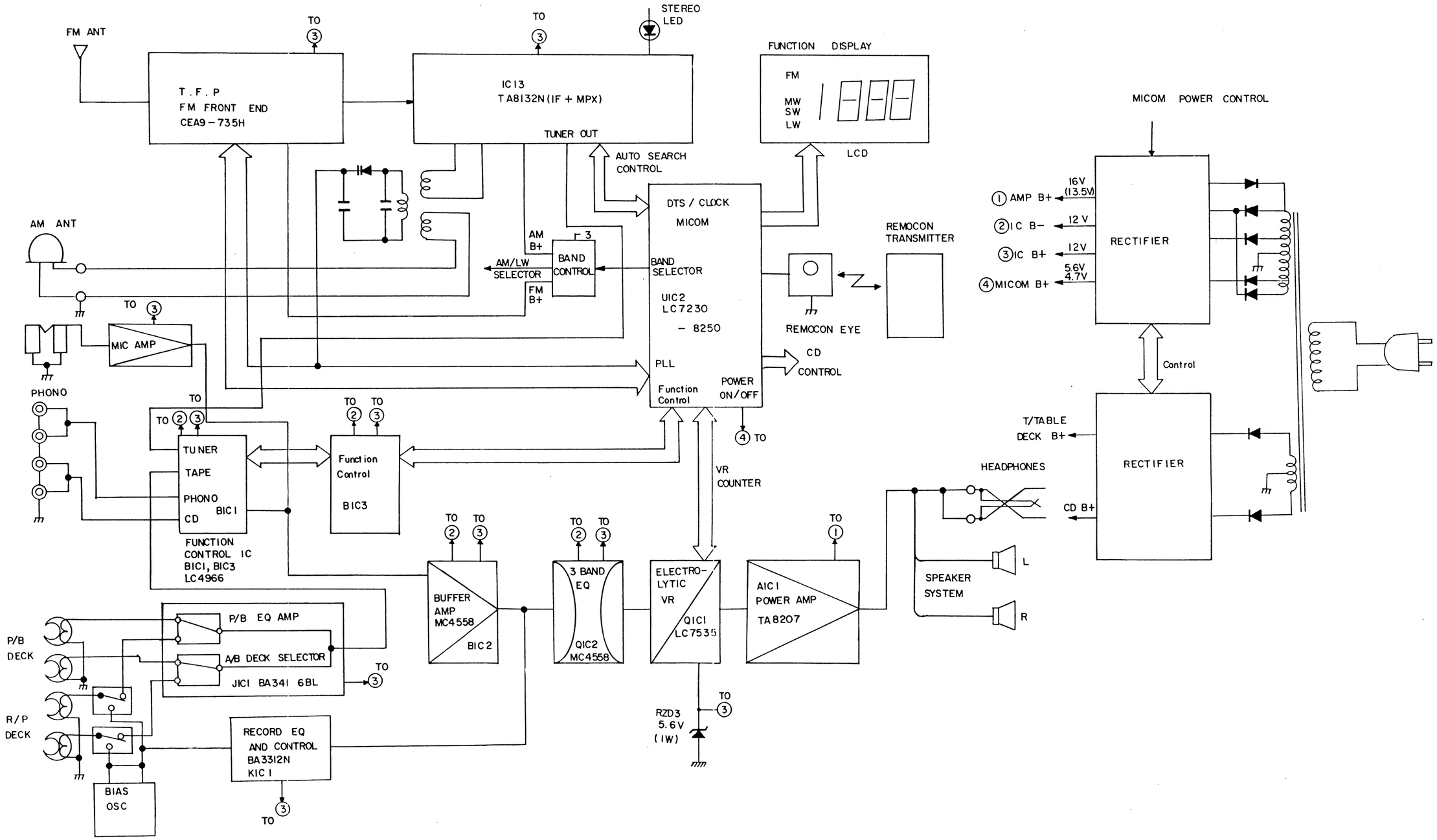
- DISASSEMBLY OF CASSETTE DOOR

1) Remove 8 screws ⑦
2) Remove 2 screws ⑤ and disassemble damper gear.
3) Open the cassette door.
4) Dissemble cassette door in direction of ⑥

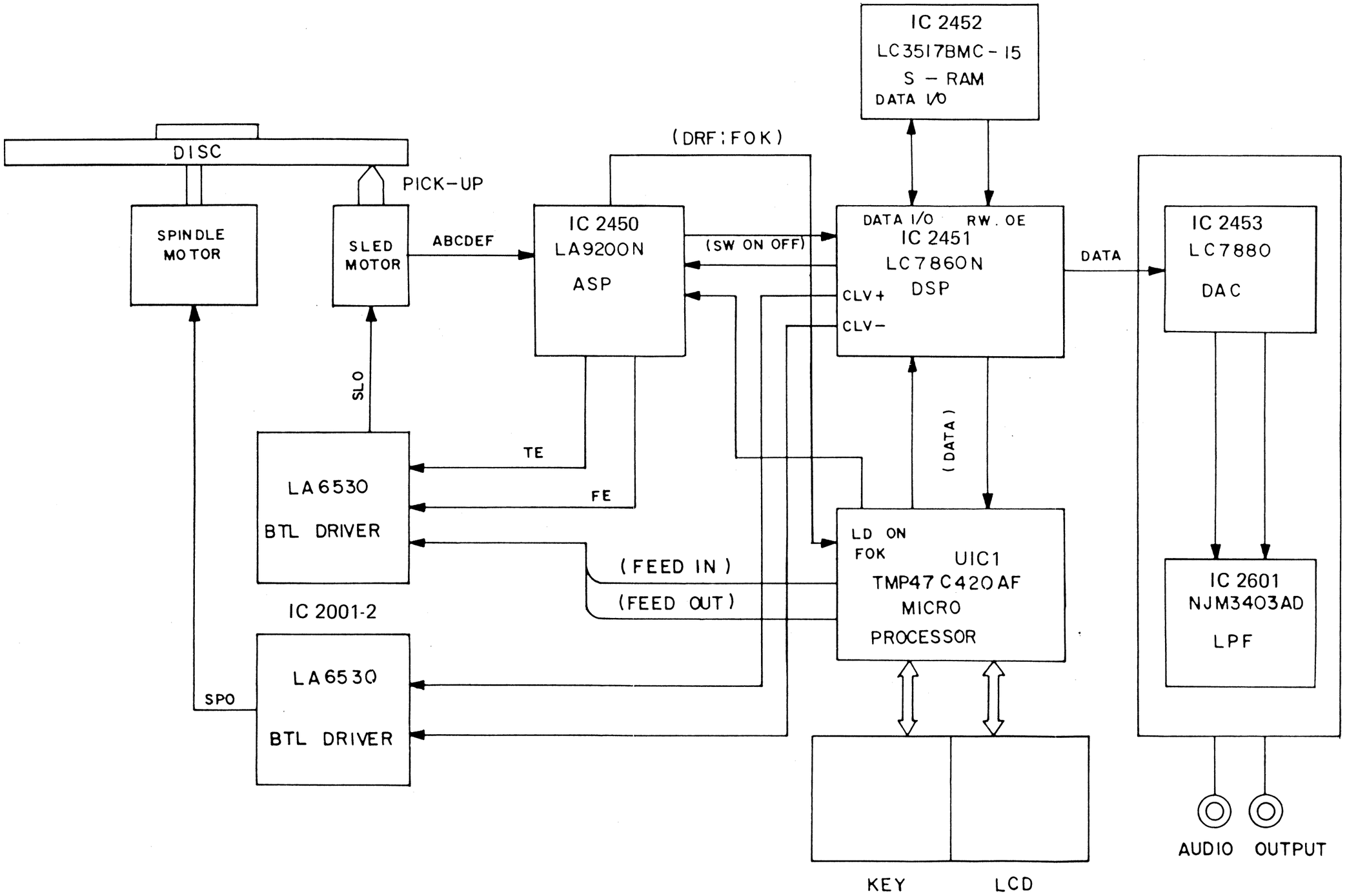


4. BLOCK DIAGRAM

4-1. MAIN SECTION BLOCK DIAGRAM

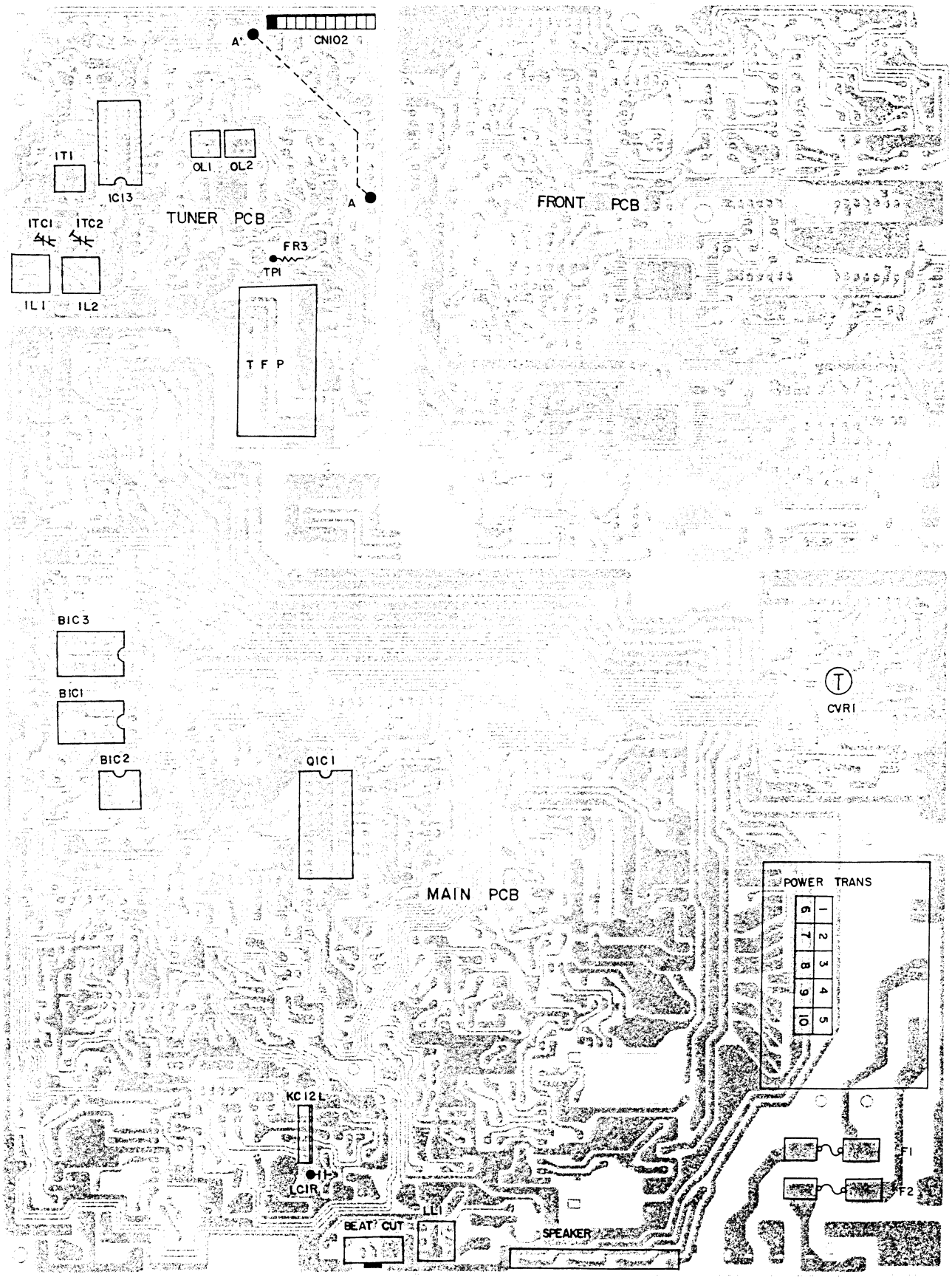


4-2 CD SECTION BLOCK DIAGRAM

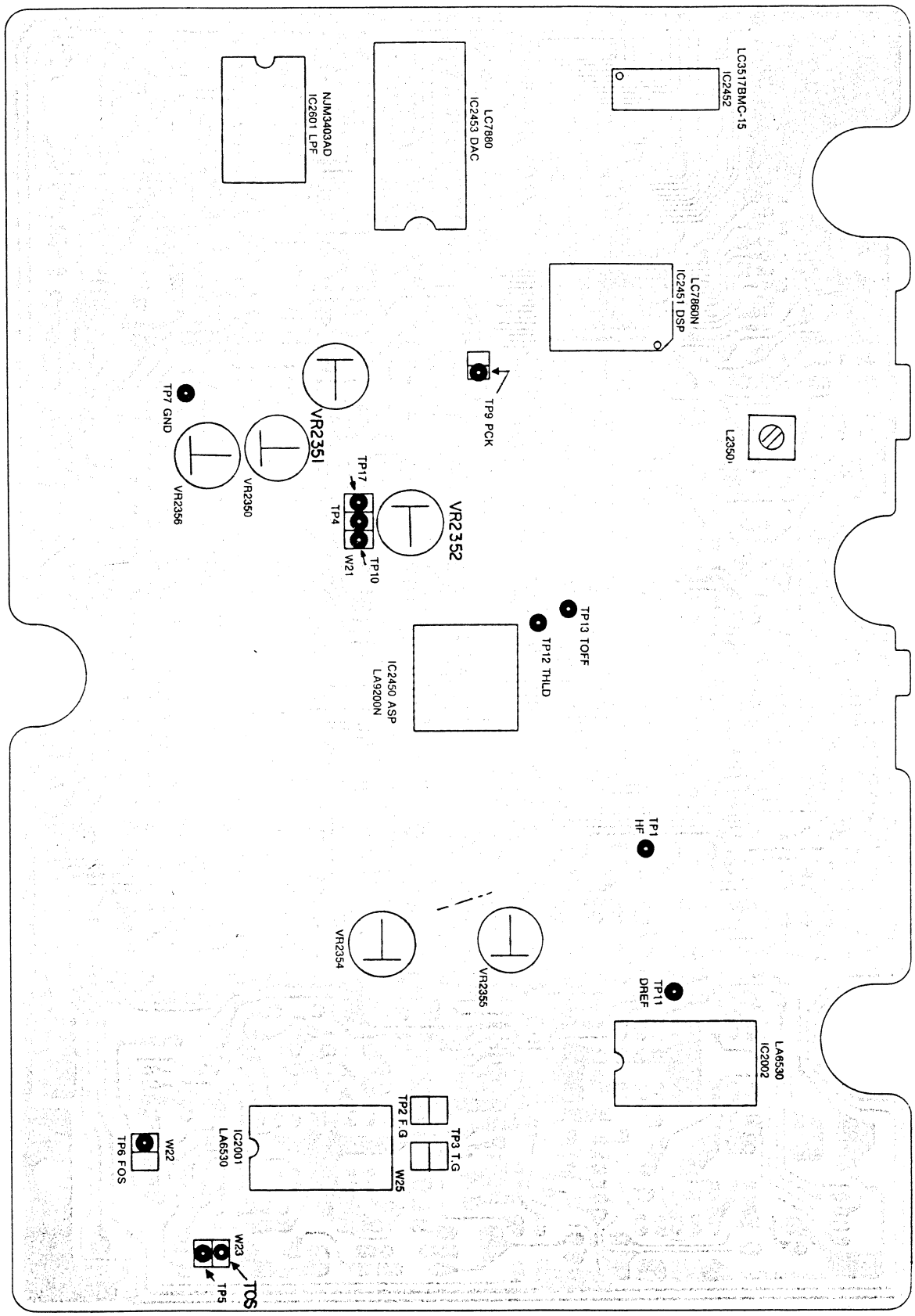


5. ALIGNMENT POINT LOCATION

5-1. MAIN SECTION



5-2. CD SECTION



6. ALIGNMENT PROCEDURE

6-1. TUNER SECTION

A. MW (AM) IF ADJUSTMENT [FIG. 1]

STEP	SIGNAL SOURCE CONNECT TO	SET SIGNAL TO	ALIGNMENT INDICATOR CONNECT TO	SET TUNING TO	ADJUST	ADJUST FOR
1	AM SIGNAL GEN AM LOOP ANT.	450KHz	OSCILLOSCOPE AM DET.OUTPUT OR SPEAKER TERMINAL	522KHz (MW) 530KHz (AM)	IT 1	MAXIMUM

B. MW(AM) RF ADJUSTMENT [FIG. 1]

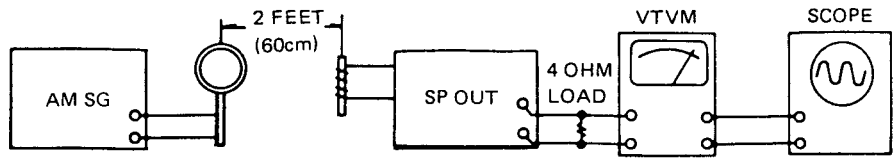
STEP	SIGNAL SOURCE CONNECT TO	SET SIGNAL TO	ALIGNMENT INDICATOR CONNECT TOTP1	SET TUNING TO	ADJUST	ADJUST FOR
1	NOT USED	NOT USED	DIGITAL DC VOLT METER TEST POINT TP1	522 KHz (MW) 530KHz (AM) (LOW END)	OL 1 (AM OSC COIL)	0.9V ± 0.05 (MW) 1.0V ±0.05 (AM)
2	NOT USED	NOT USED	DIGITAL DC VOLT METER TEST POINT TP 1	1611KHz (MW) 1610KHz (AM) (HIGH END)	OTC 1 (AM OSC TRIMMER)	9V ± 0.05
3	REPEAT STEPS 1 AND 2 TO OBTAIN BEST FREQUENCY RANGE.					
4	AM SIGNAL GEN. AM LOOP ANT.	603KHz (MW) 600KHz (AM) (MODULATED)	AM DET. OUTPUT OR SPEAKER TERMINAL	603KHz (MW) 600KHz (AM)	IL 1 (AM ANT. COIL)	MAXIMUM GAIN
5	AM SIGNAL GEN. AM LOOP ANT.	1404KHz (MW) 1400KHz (AM) (MODULATED)	AM DET.OUTPUT OR SPEAKER TERMINAL	1404KHz (MW) 1400KHz (AM)	ITCI (AM ANT. TRIMMER)	MAXIMUM GAIN
6	REPEAT STEPS 4 AND 5 TO MINIMIZE TRACKING ERROR AND ALSO REPEAT STEP 3 IF NECESSARY.					

C. LW RF ADJUSTMENT [FIG. 1]

STEP	SIGNAL SOURCE CONNECT TO	SET SIGNAL TO	ALIGNMENT INDICATOR CONNECT TO	SET TUNING TO	ADJUST	ADJUST FOR
1	NOT USED	NOT USED	DIGITAL DC VOLT METER TEST POINT TP	146KHz (LOW END)	OL 2 (LW OSC COIL)	1.2V ± 0.05
2	NOT USED	NOT USED	DIGITAL DC VOLT METER TEST POINT TP1	290 KHz (HIGH END)	IL 2 (LW OSC TRIMMER)	5.2V ± 0.05
3	REPEAT STEPS 1 AND 2 TO OBTAIN BEST FREQUENCY RANGE.					
4	AM SIGNAL GEN. AM LOOP ANT.	155 KHz (MODULATED)	VTVM AM DET. OUTPUT OR SPEAKER TERMINAL	155 KHz	IL 2 (LW ANT. COIL)	MAXIMUM GAIN
5	AM SIGNAL GEN. AM LOOP ANT.	272 KHz (MODULATED)	VTVM AM DET. OUTPUT OR SPEAKER TERMINAL	272 KHz	ITC 2 (LW ANT. TRIMMER)	MAXIMUM GAIN
6	REPEAT STEPS 4 AND 5 TO MINIMIZE TRACKING ERROR AND ALSO REPEAT STEP 3 IF NECESSARY.					

D. FM LOW COVER ADJUSTMENT

STEP	SIGNAL SOURCE CONNECT TO	SET SIGNAL TO	ALIGNMENT INDICATOR CONNECT TO	SET TUNING TO	ADJUST	ADJUST FOR
1	NOT USED	NOT USED	DIGITAL DC VOLTMETER TP1	87.5MHz (3BAND) 87.9MHz(2BAND)	FRONT END OR 1	1.5V ±0.05(3 BAND) 1.6 ± 0.05(2 BAND)



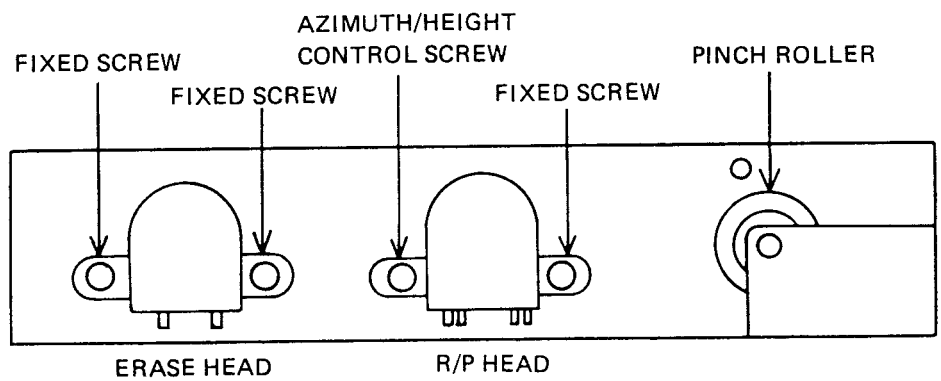
[FIG. 1]

* No adjustment is required for FM IF, RF or STEREO.

6-2. DECK SECTION

A. TAPE SPEED ADJUSTMENT
1) CONNECT THE FREQUENCY COUNTER TO SPEAKER OUTPUT TERMINAL.
2) PUT OFF HIGH SPEED BUTTON.
3) PLAYBACK A 3KHz TEST TAPE.
4) ADJUST SEMIFIXED RESISTER (CVR1) FOR FREQUENCY COUNTER INDICATED 3KHz.

B. HEAD HEIGHT/AZIMUTH ADJUSTMENT
1) PURPOSE
THE PURPOSE OF THIS ADJUSTMENT IS TO OBTAIN GOOD FREQUENCY RESPONSE AND TO IMPROVE CHANNEL BALANCE BY ADJUSTING HEAD TO THE PROPEREST POSITION
2) METHOD
THE HEAD HEIGHT/AZIMUTH ADJUSTMENT SCREW IS LOCATED ON THE LEFT SIDE OF R/P HEAD (SEE FIGURE). BEFORE ADJUSTING, SEMI-FIXED RESISTOR SHOULD BE LOCATED AT THE MAXIMUM CONDITION.
3) ADJUST HEAD AS FOLLOWS
A) CONNECT 2CH VOLTMETER AND/OR OSCILLOSCOPE TO THE TPAE OUTPUT TERMINAL OF BOTH R CHANNEL AND L CHANNEL.
B) PLAY 10kHz AZIMUTH TEST TAPE.
C) WITH A SCREW DRIVER TURN ADJUSTMENT SCREW SLOWLY FOR THE MAXUMUM OUTPUT OF LEFT CHANNEL AND AT THE SAME TIME ALSO FOR THE SAME PHASE OF BOTH CHANNEL.
D) SEAL ADJUSTMENT SCREW WITH GLYPTAL OR OTHER SIMILAR NON-HARDENING CEMENT.



(FRONT VIEW)

C. BIAS FREQUENCY ADJUSTMENT
1) PURPOSE
PURPOSE OF THIS ADJUSTMENT IS TO OBTAIN STABLE FREQUENCY RESPONSE, GOOD ERASING EFFECT AND LOW DISTORTION BY KEEPING CONSTANT BIAS FREQUENCY AND OSCILLATING FREQUENCY.
2) METHOD
A) PRESS RECORD BUTTON.
B) INPUT SIGNAL IS NOT NECESSARY FOR THIS ADJUSTMENT.
C) CONNECT A FREQUENCY COUNTER BETWEEN "LCIR" MARKING POINT AND GROUND.
D) ADJUST "LLI" FOR READING OF 85KHZ ON THE FREQUENCY COUNTER.

6-3. COMPACT DISC PLAYER SECTION

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION, BE SURE TO OBSERVE FROM A DISTANCE OF MORE (THAN 30 cm) FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.

FOCUS OFFSET ADJUSTMENT

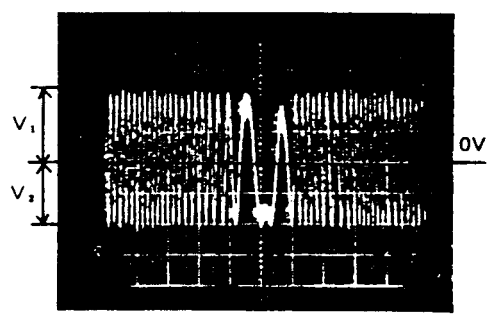
A. Power "ON" and set "STOP" position.
B. Connect Oscilloscope to Test pin "TP 11 (DREF) and TP6 (FOS)". TP11 is common, TP6 is Test point.
C. Adjust VR2354 so that the Voltage measure OV (DC).

TRACKING OFFSET ADJUSTMENT

A. Power "ON" and set stop position.
B. Connect oscilloscope to the test pin TP5 and TOS. TP5 is common, TOS is Testpoint.
C. Adjust VR2356 so that the voltage measure)0V (DC).
D. Short between TP7 (GND) and TP13 (TOFF).
E. Adjust VR2351 so that the voltage measure 0V.
F. After adjustment, separate the pattern bridge made in step "B" and "E".

E-F BALANCE ADJUSTMENT

A. Power "ON" and play.
B. Connect oscilloscope to the test pin TP4 (VREF) and TP10 (TE1). TP4 is common, TP10 is testpoint.
C. Short between TP4 (VREF) and TP17 (E-FS).
D. Set the range of oscilloscope Volt/Div 0.5V and Time/Div 12ms.
E. Adjust VR2350 so that the waveform is as shown in the figure [A].



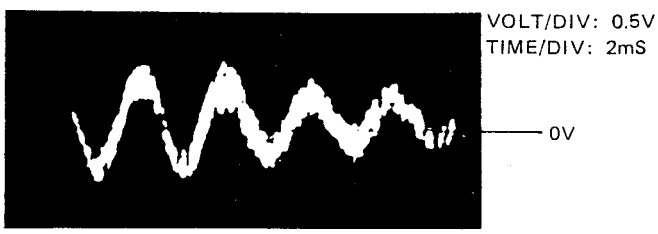
[FIG. [A]]

TRACKING GAIN ADJUSTMENT

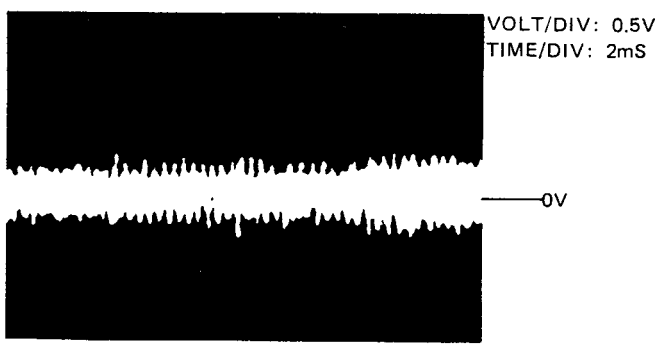
A. Power "ON" and play.
B. Connect Oscilloscope to Test pin "TP4 (VREF) and TP10 (TE). TP 4 is common, TP10 is test point.
C. Set the range of oscilloscope to VOLT/DIV (0.5V) and TIME/DIV (2mS).
D. Adjust VR2352 so that the waveform is as shown in the figure below.

[NORMAL WAVEFORM]

[LOW TRACKING GAIN]



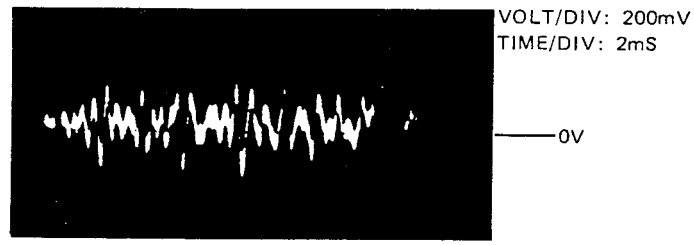
[HIGH TRAKING GAIN]



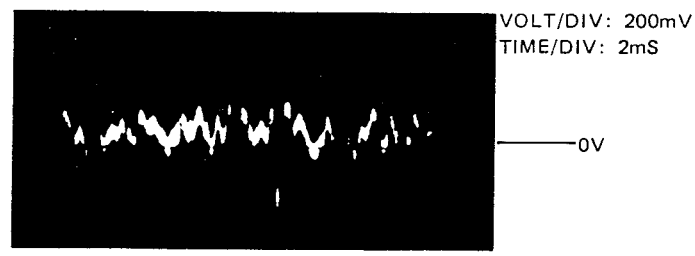
FOCUS GAIN ADJUSTMENT

A. Power "ON" and play.
B. Connect Oscilloscope to Test pin "TP5 (DREF) and TP6 (FOS)". TP5 is common, TP6 is test point.
C. Set the range of oscilloscope to VOLT/DIV (200mV) and TIME/DIV (2mS).
D. Adjust VR2355 so that the waveform is as shown in the figure below.

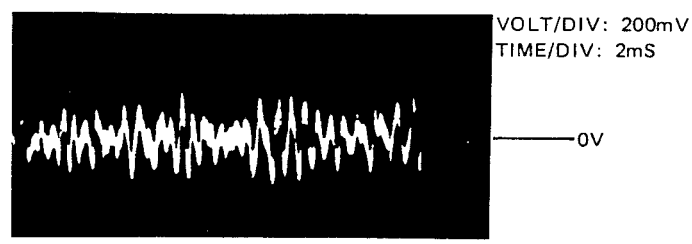
[NORMAL WAVEFORM]



[LOW FOCUS GAIN]



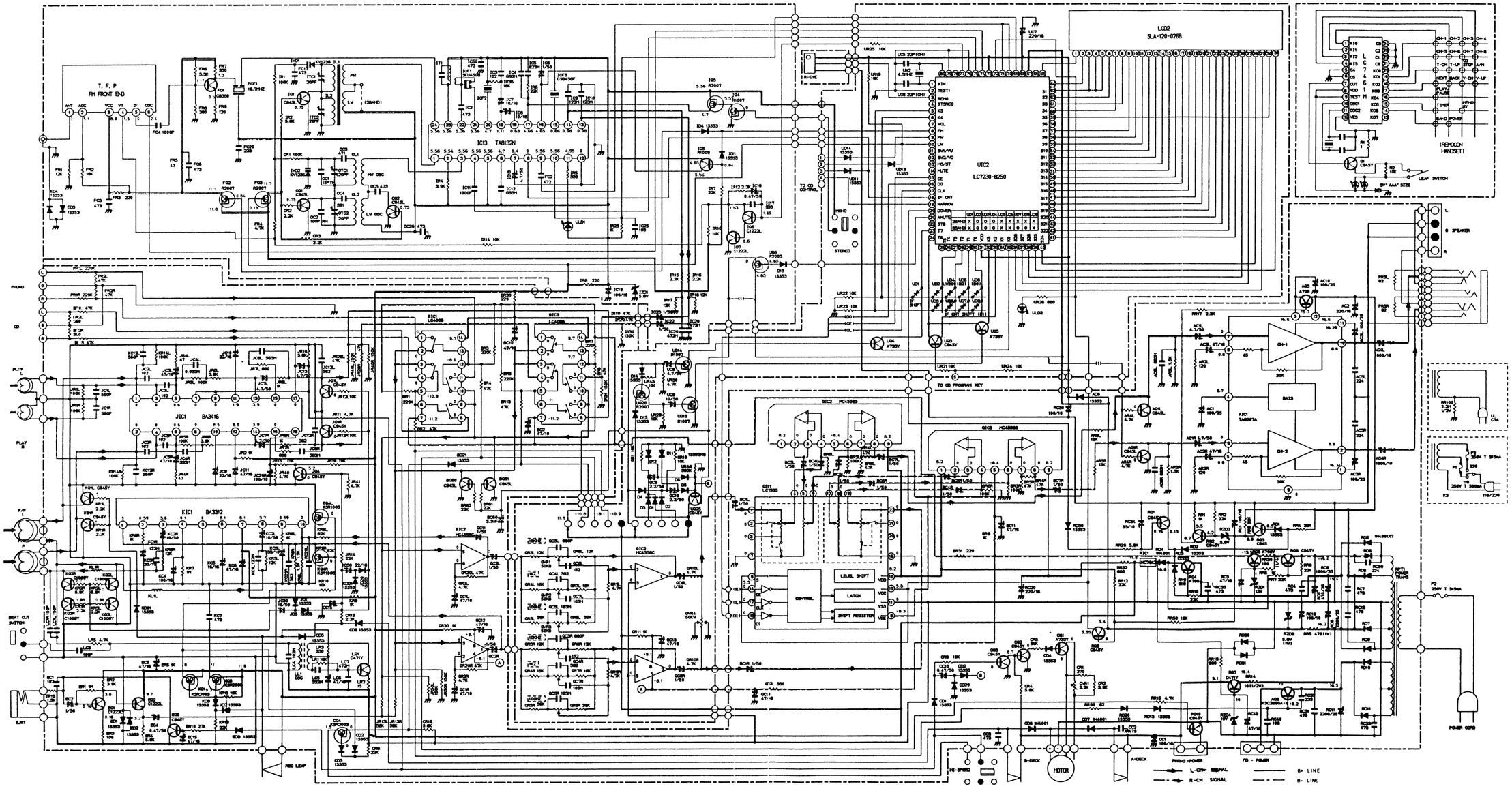
[HIGH FOCUS GAIN]



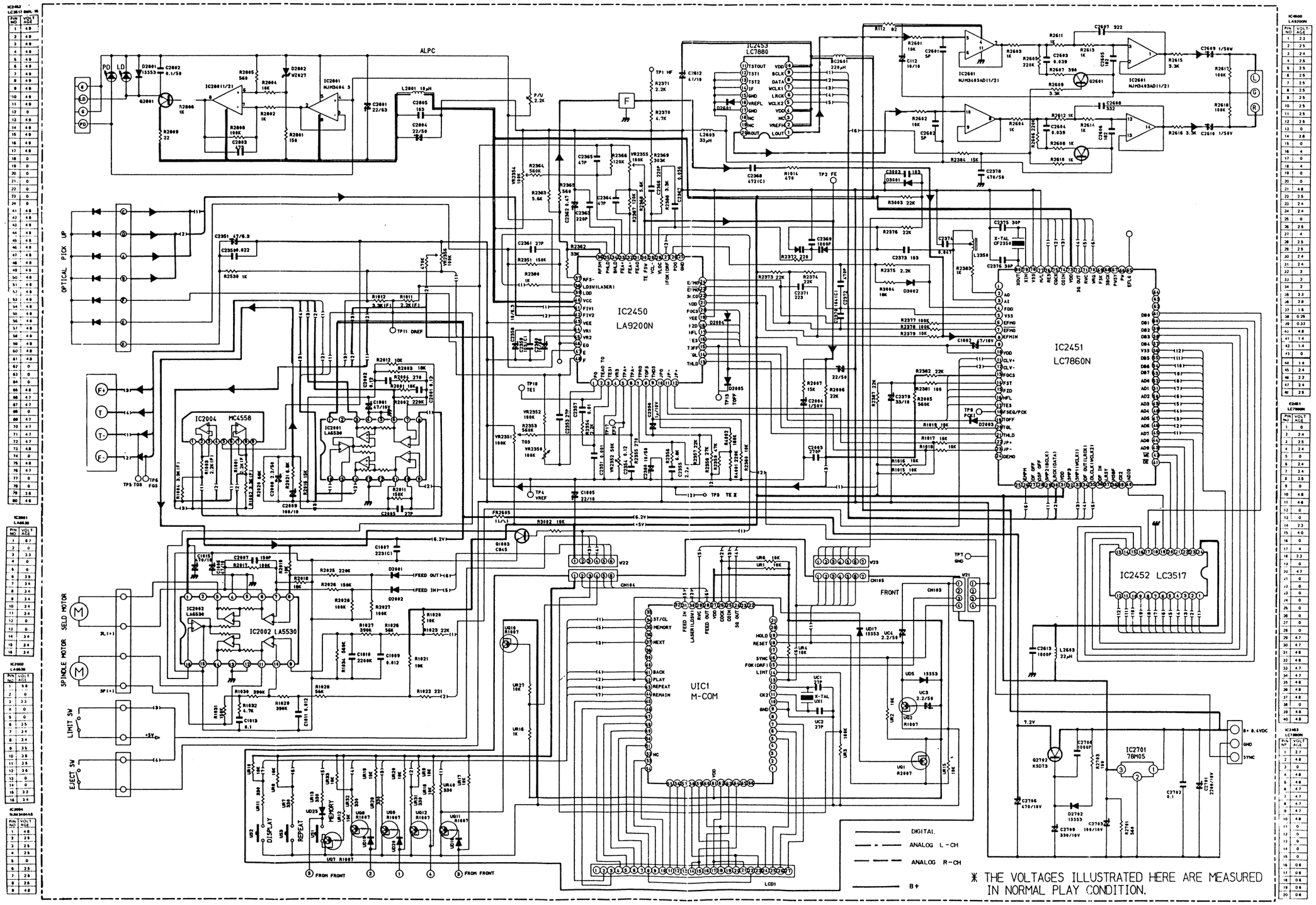
* Use clean (flautless) disc when you adjust gain. (at center track)

7. SCHEMATIC DIAGRAM

7-1. MAIN SECTION



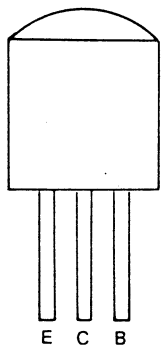
7-2. CD SECTION



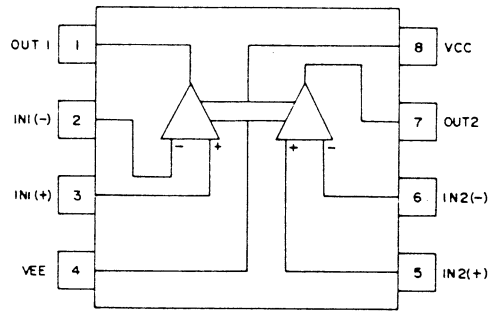
8. IC AND TR LAYOUT

8-1. MAIN SECTION

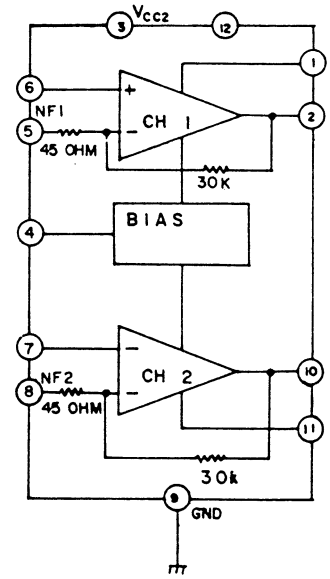
C1222L
KSA733
KSR1007
KSR2007

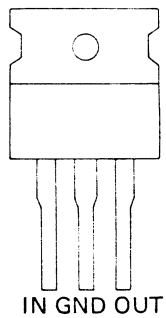


BIC2, QIC2, MC4558C (OP AMP)



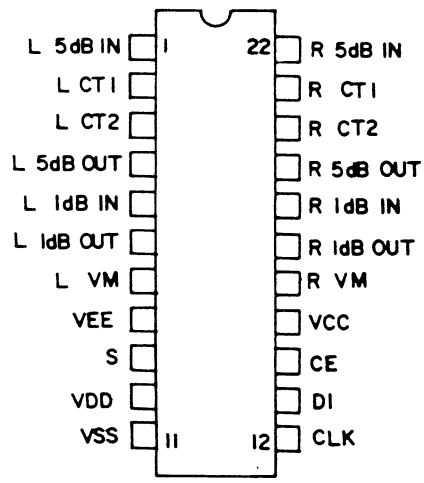
AICI TA8207K (POWER IC)



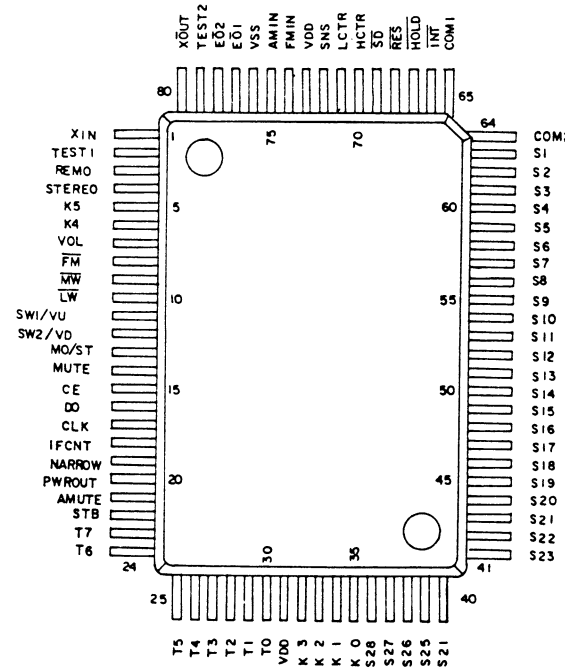


RIC1
MC7812
(IC-REGURATOR)

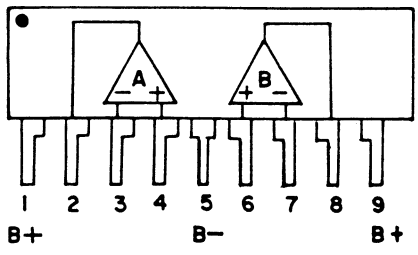
QIC1
LC7535 VOLUME IC



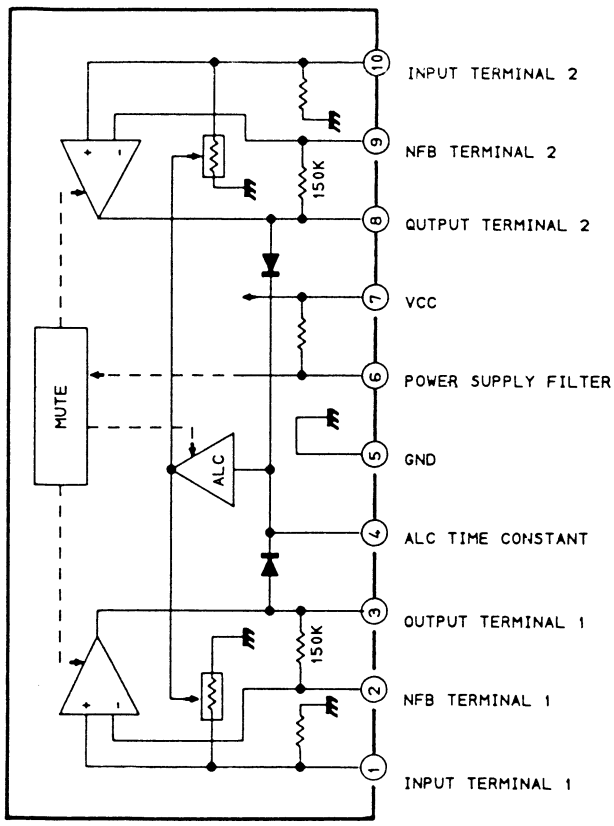
UIC2 LC7230 (DTS IC)



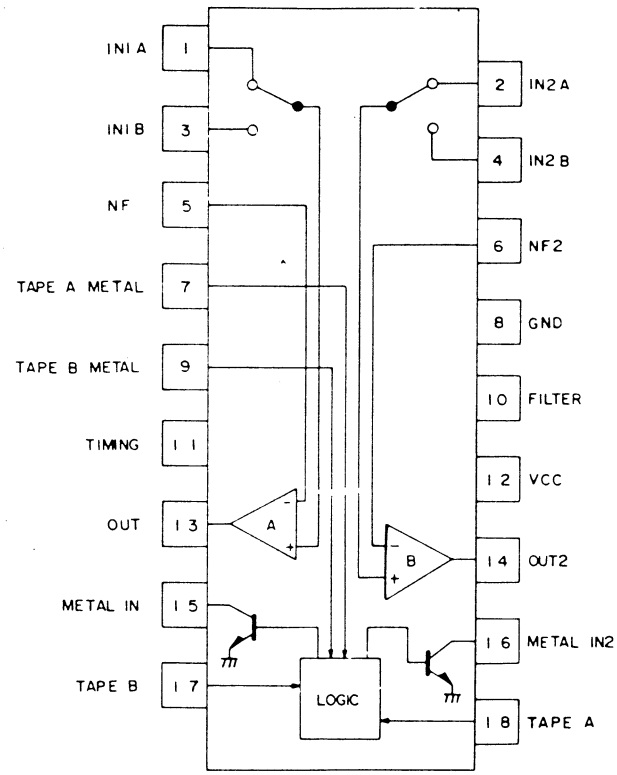
QIC2, QIC3, MC4558S (IC DUAL OP AMP)



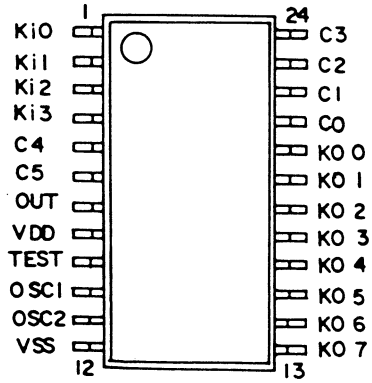
BA 3312N KICI (REC ALC AMP)



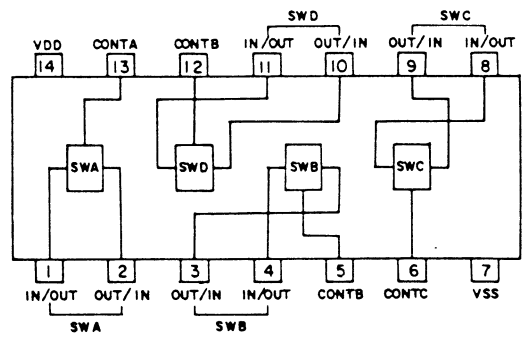
BA 3416BL JICI (TAPE EQ)



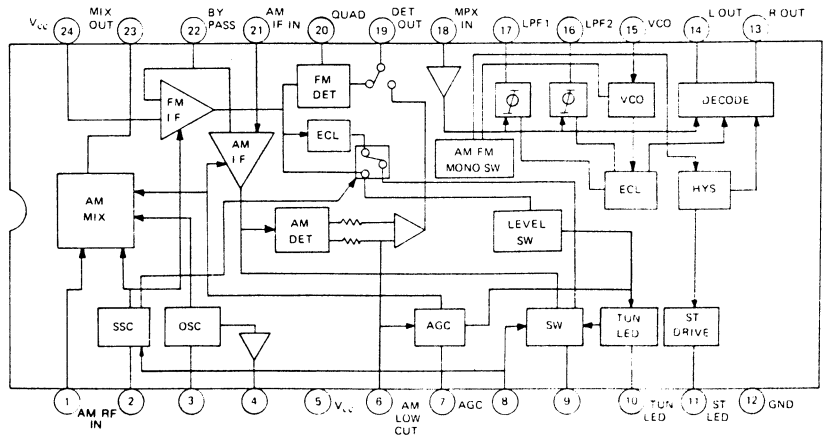
REMOCON ASS'Y LC7461M (REMOCON IC)



BIC1, BIC3, LC 4966 (ANALOG SWITCH)

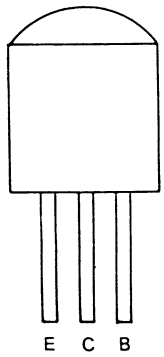


IC13 TA8132N (IF + MPX)

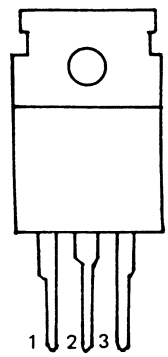


8-2. CD SECTION

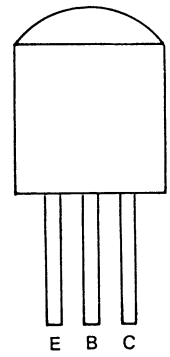
KSR1007
KSR2007



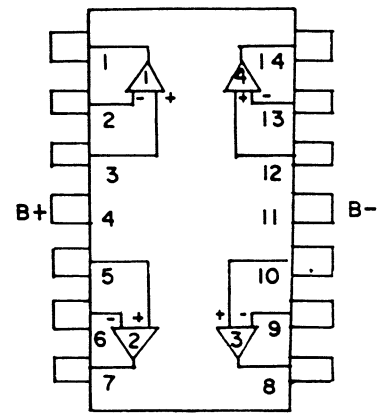
78M05
KSD73



KSC945

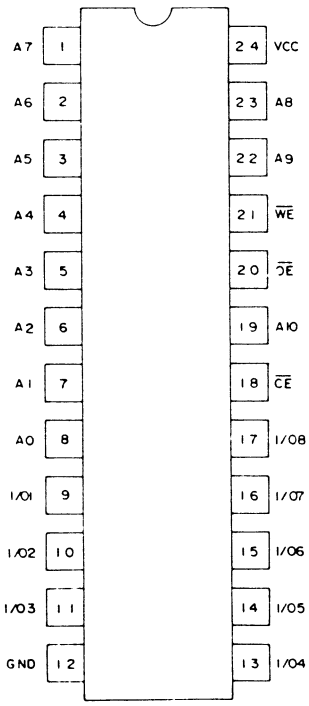


IC 2601
NJM3403AD (OP AMP)

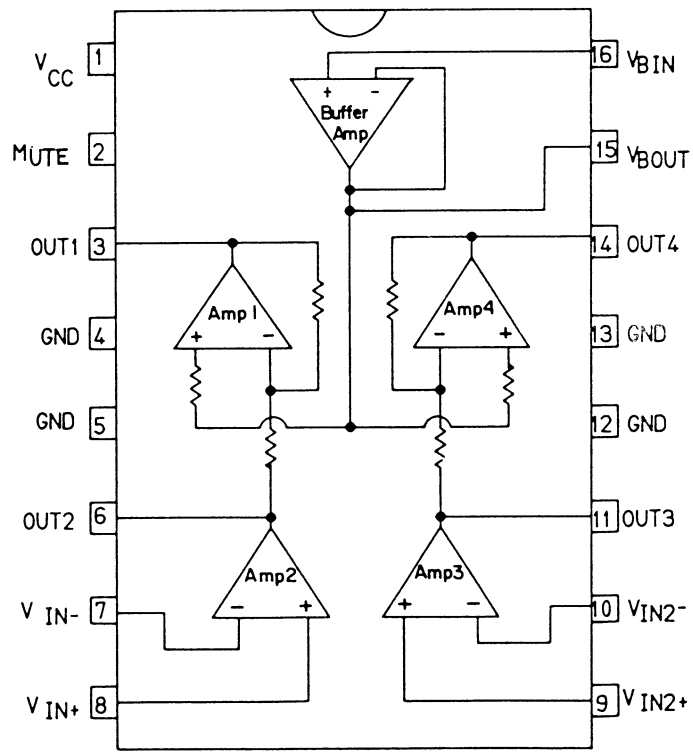


PIN / IC	1	2	3
KSD73	B	C	E
78M05	IN	GND	OUT

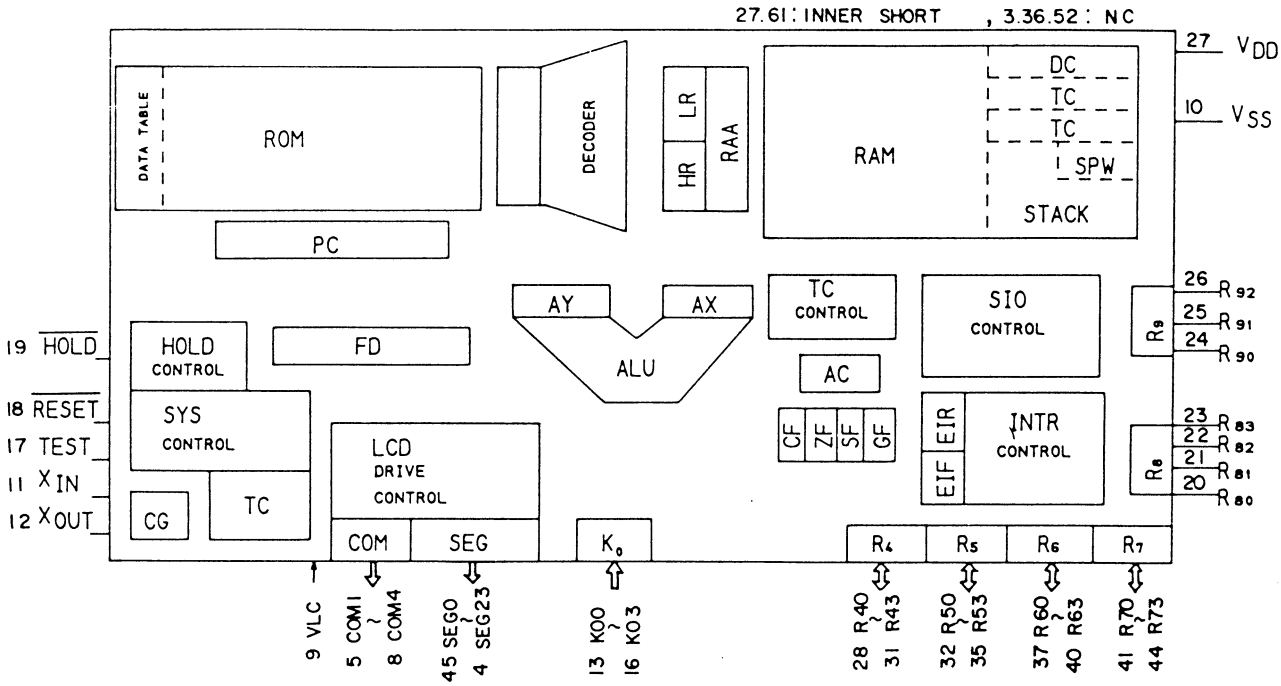
IC2452 (RAM)
LC3517 BML-15



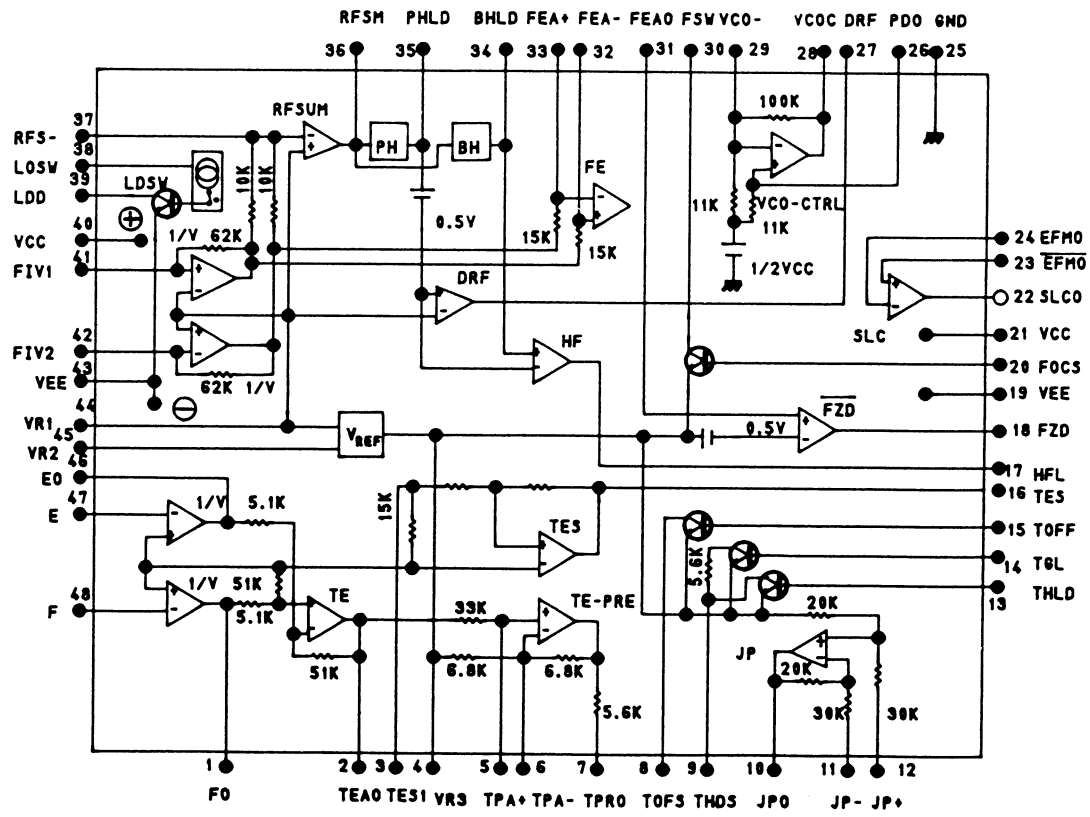
LA6530 IC2001-2 (BTL DRIVE IC)



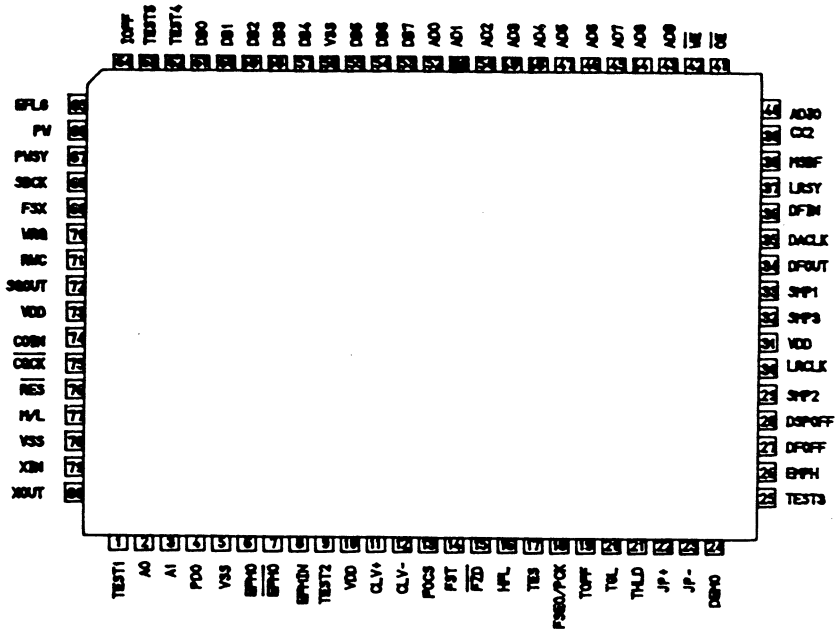
TMP 47C 420AF UICI (MICOM)



LA9200N IC2450 (ASP)



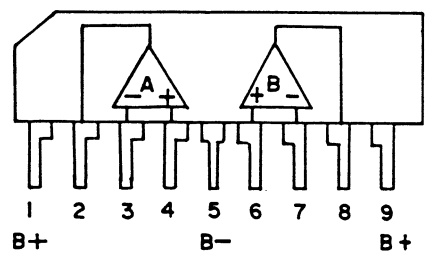
LC7860N IC2451 (DSP)



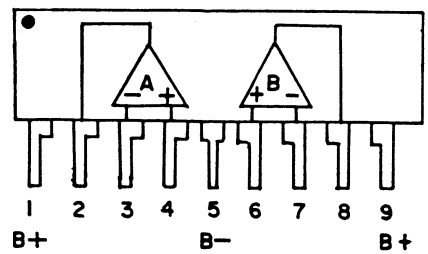
LC7880 IC2453 (D/A CONVERTER)

LOUT	1	20	ROUT
VrefH	2	19	NC
NC	3	18	NC
VDD	4	17	GND
WCLK2	5	16	VrefL
LRCK	6	15	GND
WCLK1	7	14	IF
DATA	8	13	TST2
BCLK	9	12	TST1
VDD	10	11	TSTOUT

IC2801 NJM3404S (OP AMP)

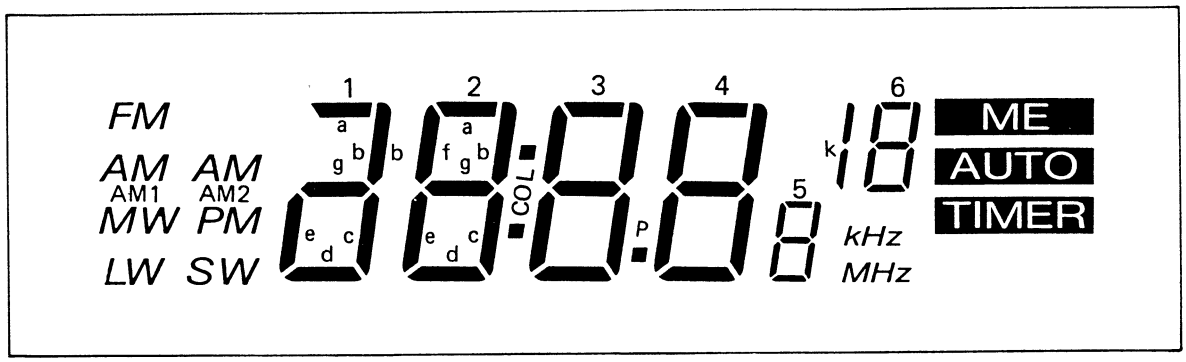


IC2004 MC4558S (IC DUAL OP AMP)



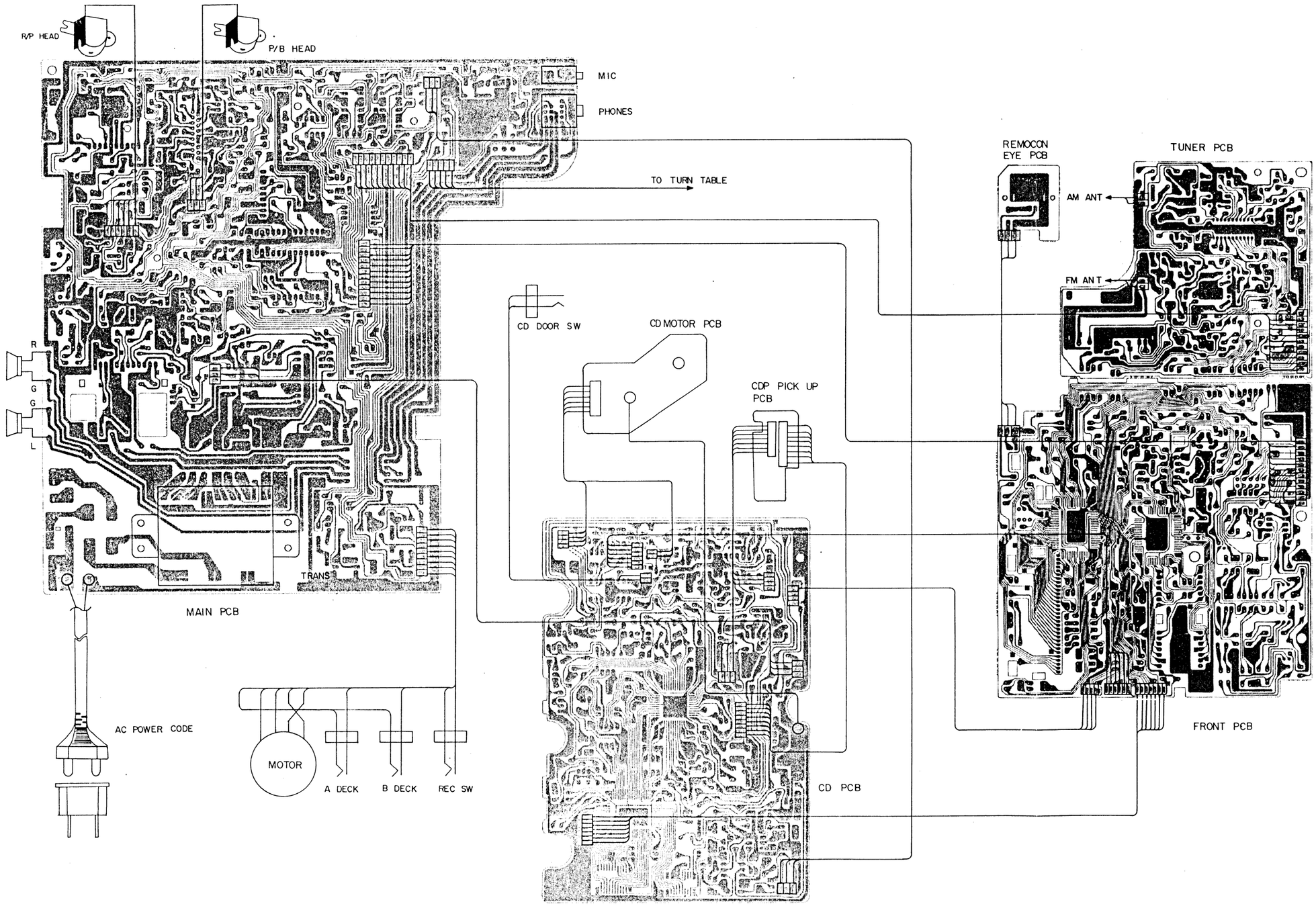
8-3. TUNER DISPLAY SECTION

LCD-DTS: SLA-120-026B



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COM 1	COM 1			AM 1	MW	SW	PM		B 1	C 1	F 2	E 2	D 2	A 2	F 3	E 3
COM 2		COM 2	FM			LW		AM 2	ADE G 1	COL	B 2	G 2	C 2		B 3	G 3
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
COM 1	D 3	A 3	F 4	E 4	D 4	A 4	G 5	BE 5	KHz	E 6	D 6	TIME –R	A 6	ME	F 6	
COM 2	C 3		B 4	G 4	C 4		ACD F 5		MHz P	G 6	C 6	K		AU-TO	B 6	

9. WIRING DIAGRAM

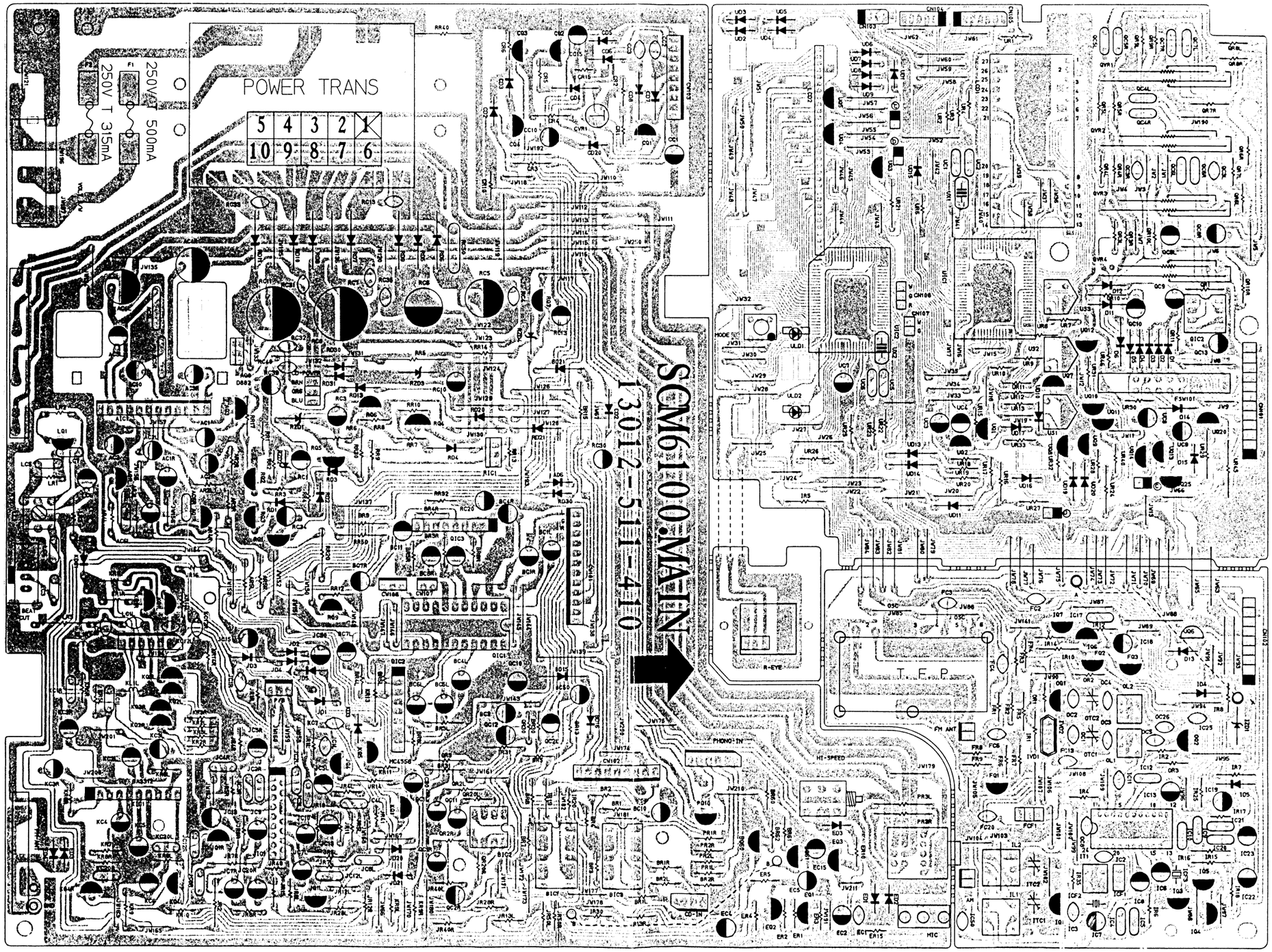


10. PCB PATTERN AND MARKING (PATTERN SIDE)

10-1. MAIN SECTION

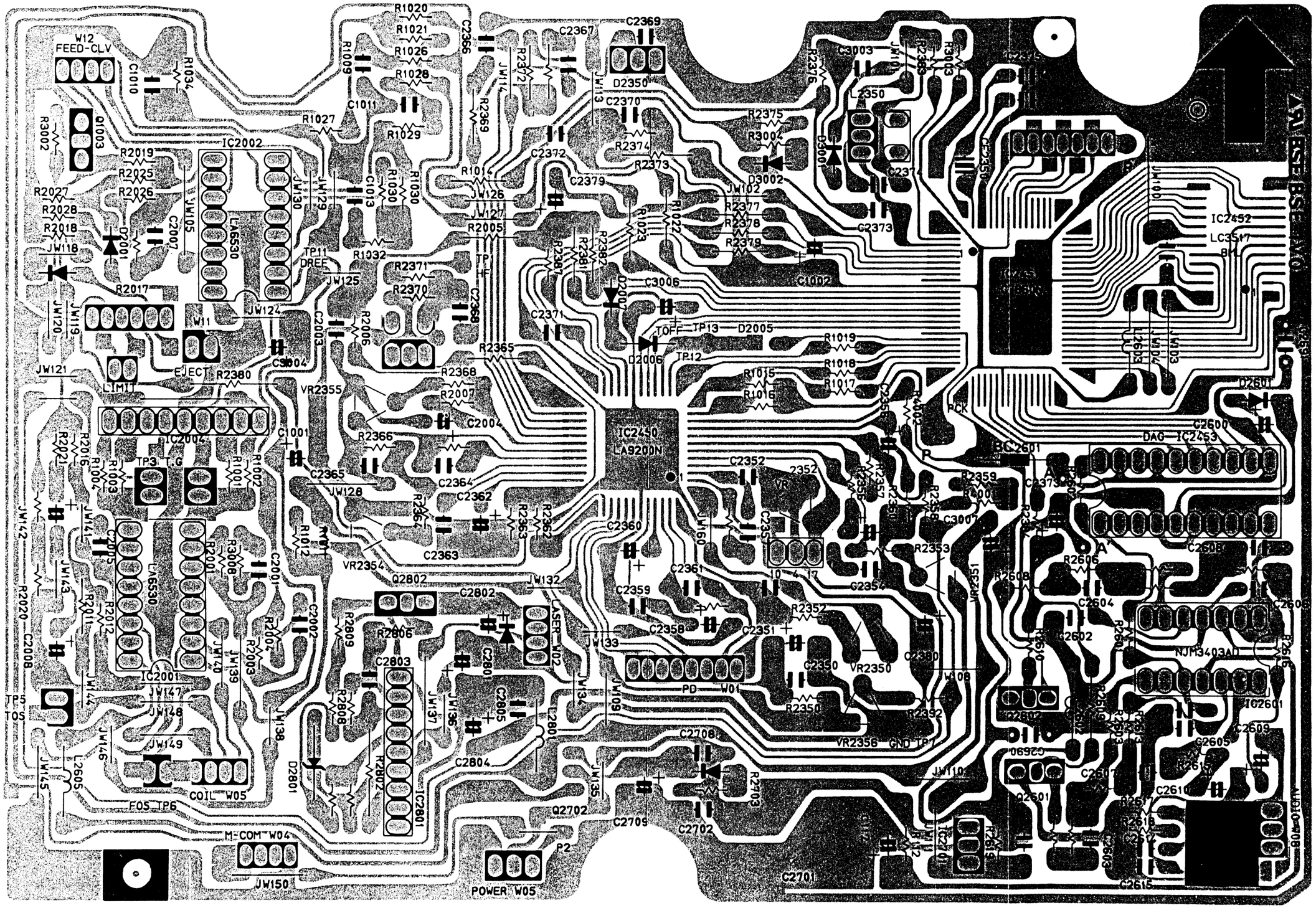
MAIN PCB

TUNER PCB



FRONT PCB

10-2. CD SECTION


W12
FEED-CLV
C1010
R1034
R1020
R1021
R1026
R1028
C1011
R1027
R1029
R1009
C2366
C2369
C2367
D2350
C2370
R2369
R2372
JW113
JW114
R2376
C3003
JW115
R2368
R3003
LC2350
R2375
R3004
R2374
R2373
D3002
D3001
C2374
C2350
C2372
C2379
R1014
JW126
JW127
R2005
IC2002
LA6530
JW105
JW129
JW130
C1013
R1030
R1032
R2371
JW125
R2370
C2368
JW124
C2003
R2006
C2371
R2365
R2368
R2007
C2004
R2366
C2365
JW128
C2364
C2362
R2363
R2362
R2364
C2363
VR2354
C2360
JW160
C2361
C2359
R2352
C2358
C2351
C2350
VR2350
R2350
R2392
C2380
JW108
PD W01
JW133
JW134
JW109
C2708
R2703
C2702
C2709
Q2702
C2804
C2805
L2801
C2801
IC2801
R2809
R2808
R2806
C2803
Q2802
C2802
LASER W02
JW132
JW135
JW136
JW137
JW138
D2801
R2802
FOS TP6
COIL W05
M-COM W04
JW150
P2
POWER W05
C2701
C2615
C2616
C2617
C2618
C2619
C2620
C2621
C2622
C2623
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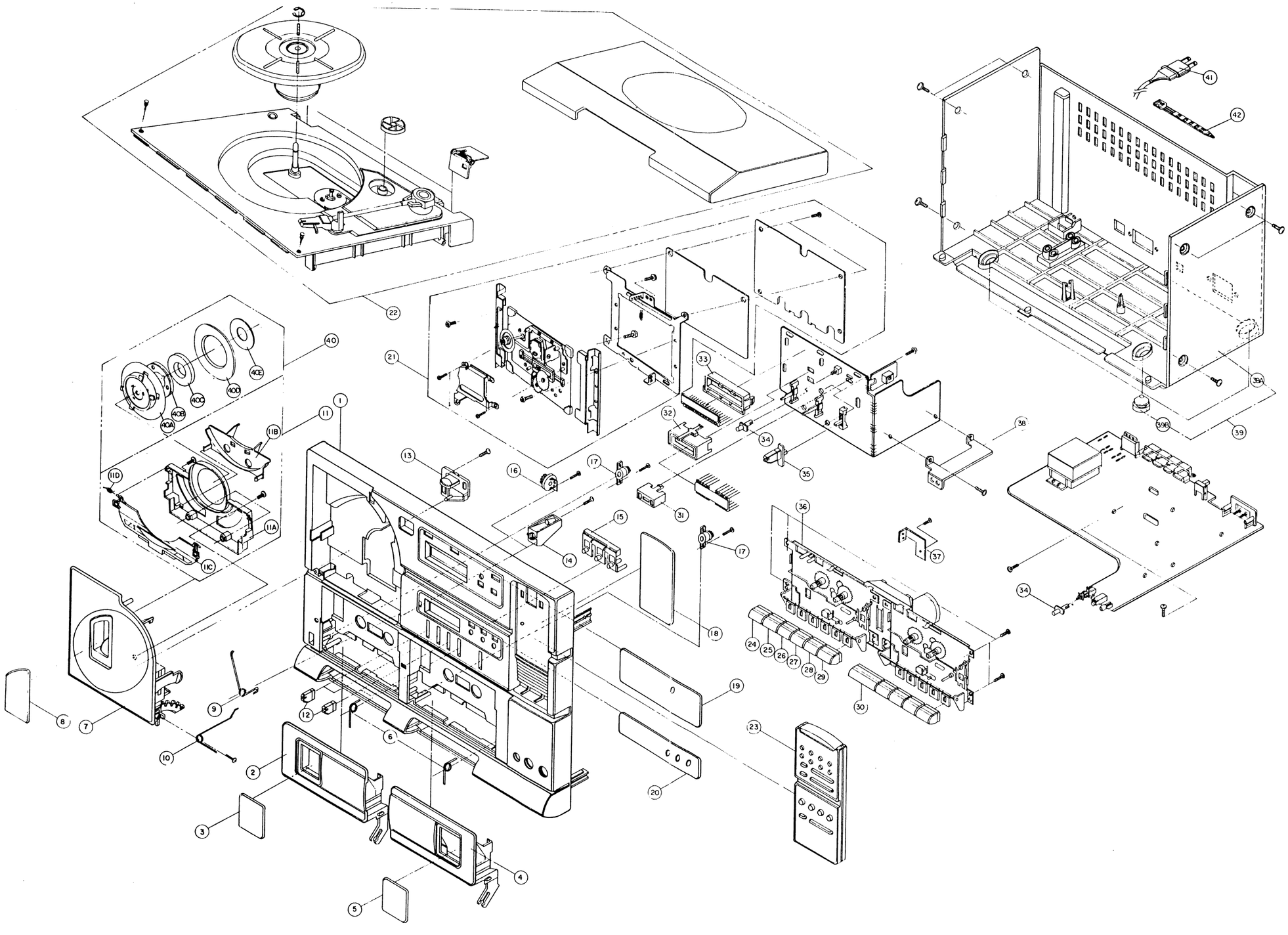
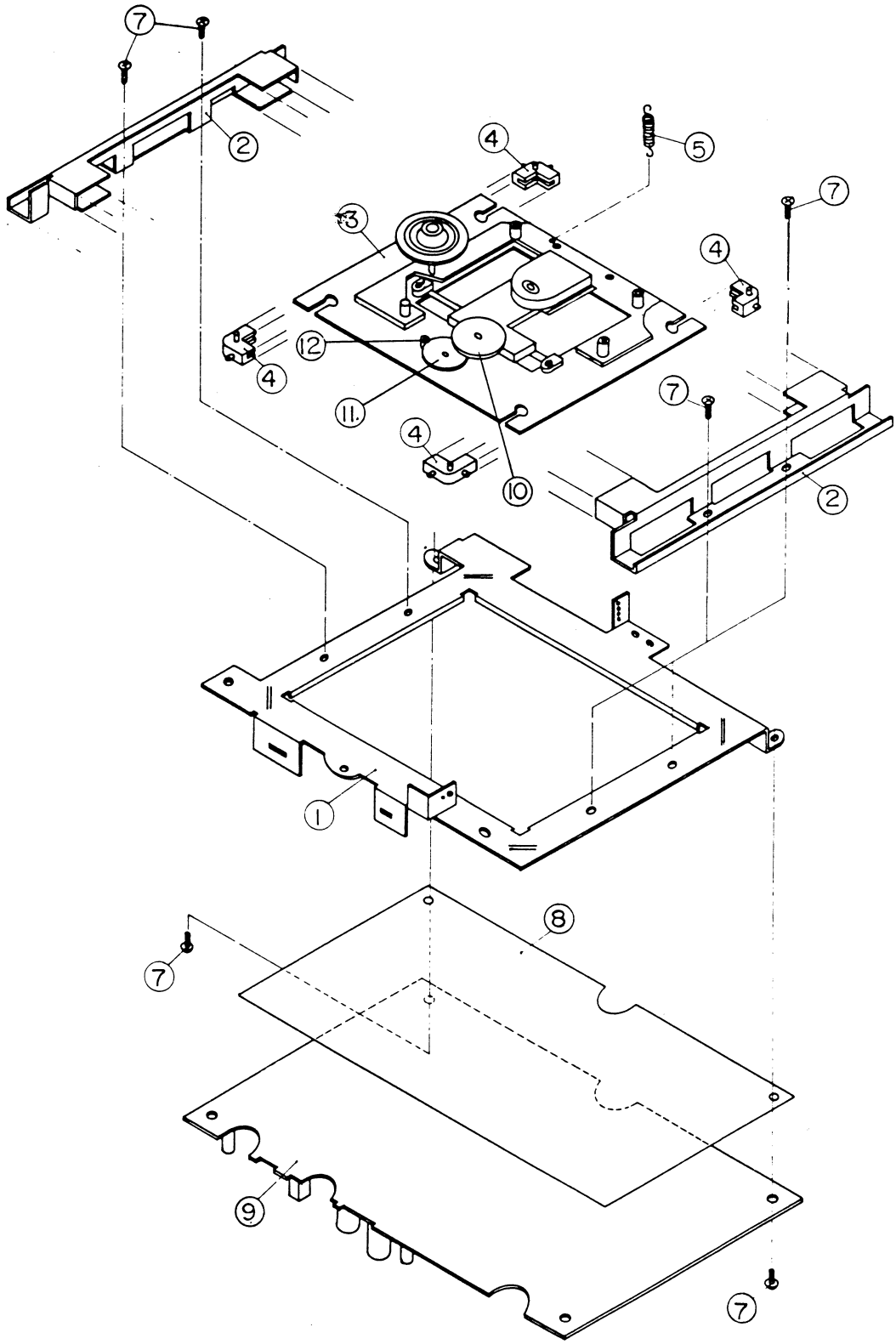
C2640
C2641
C2642
C2643
C2644
C2645
C2646
C2647
C2648
C2649
C2650
C2651
C2652
C2653
C2654

11. EXPLODED VIEW

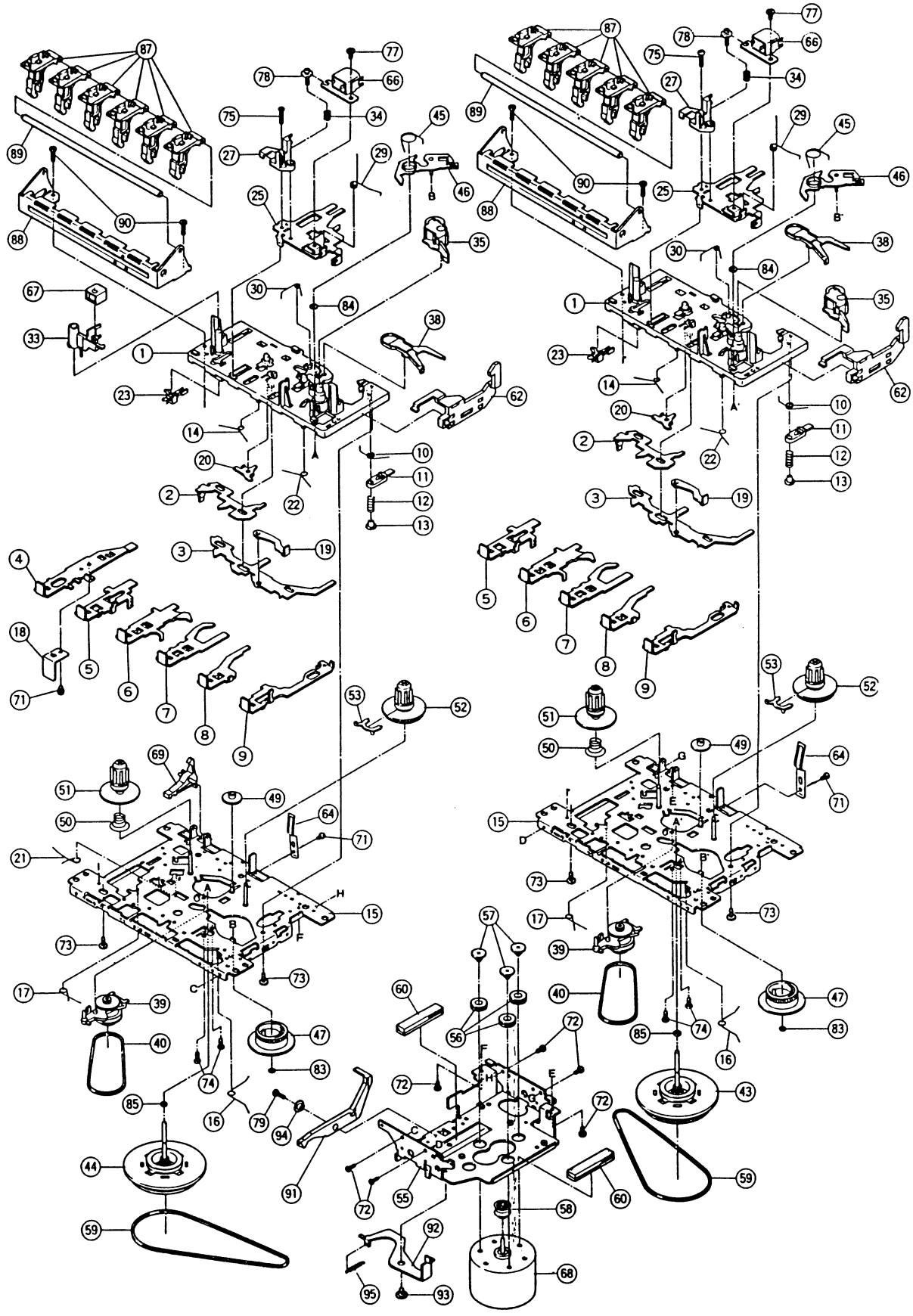
11-1. MAIN EXPLODED VIEW



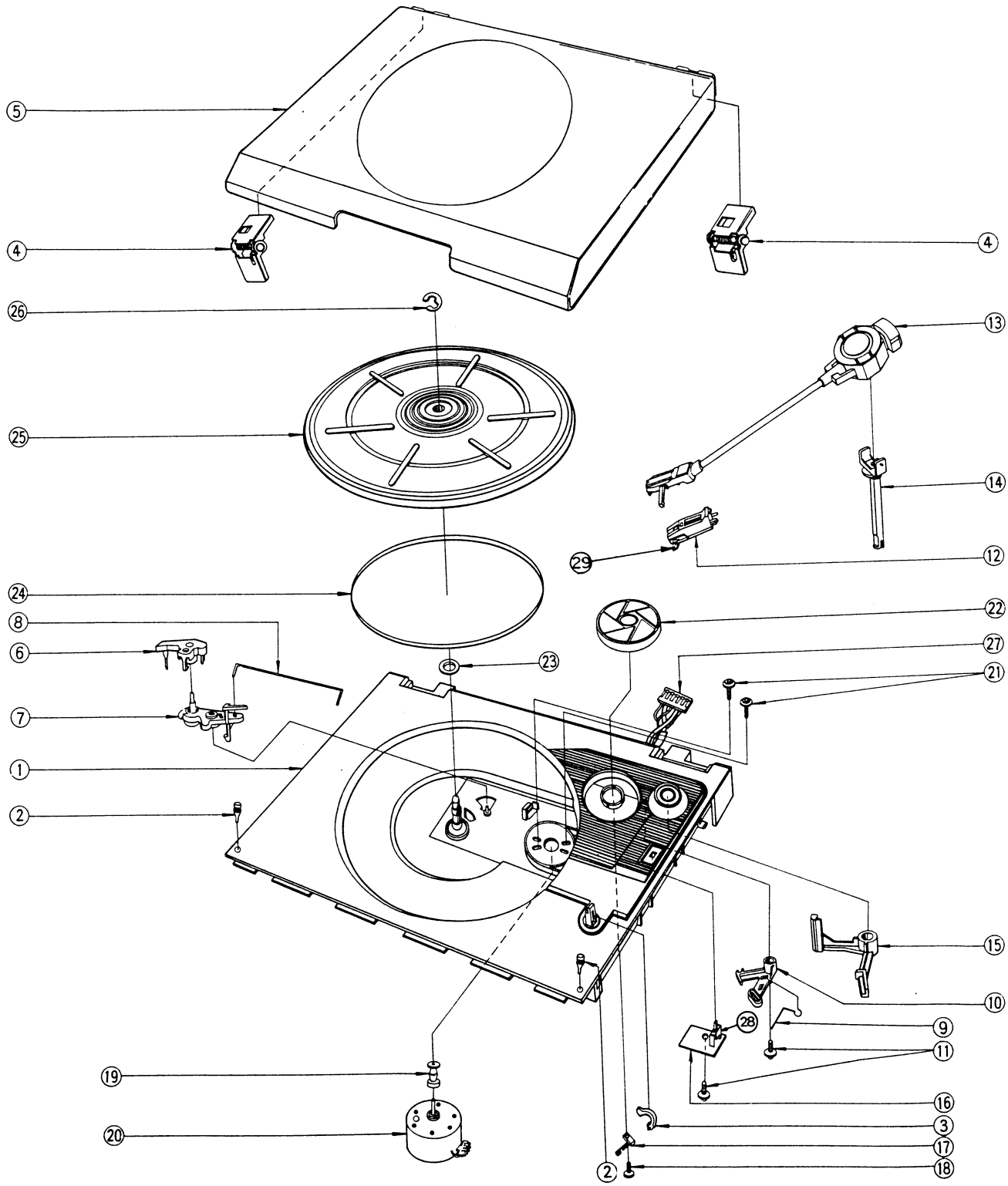
11-2. CD DECK EXPLODED VIEW



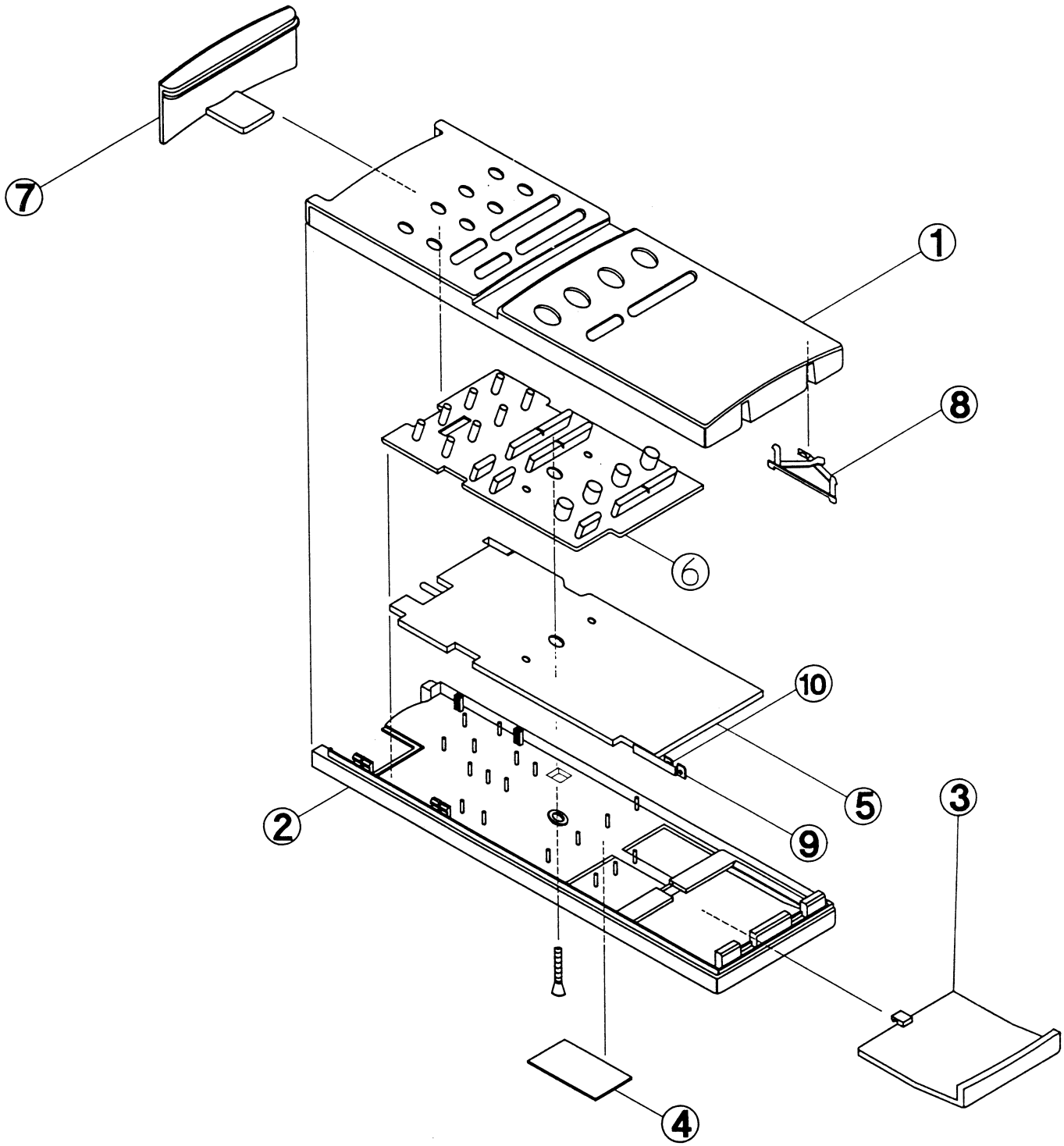
11-3. CASSETTE DECK EXPLODED VIEW



11-4. TURN TABLE EXPLODED VIEW



11-5 REMOCON EXPLODED VIEW



12. PARTS DESCRIPTION

[MAIN PCB]

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
CD7-8	12169-201-080	DIODE-RECT	IN4001, TAPE	10	
RD4-11					
CD2-6	12169-301-290	DIODE-SW	ISS53/IN4148 CT: 6PF	12	
AD6, KD3					
RD1, RD3					
RD20-21					
RD30					
AQ3	12149-101-560	TR	KSA708, TAPE	3	
RQ4-5					
CQ1	12149-101-520	TR	KSA733, TAPE	1	
RQ1-3	12149-301-900	TR	KSC945Y, TAPE	16	
RQ6					
RQ9, PQ10					
CQ2-3					
KQIL					
KQIR, EQ1					
JQIL, JQIR					
JQ4					
AQIL, AQIR					
LQ1, RQ7	12149-401-150	TR	KSD471-Y, TAPE	2	
AQ8	12149-401-900	TR	KSD882	1	
BIC2, QIC2	12119-401-170	IC-OP AMP	MC4558C	1	
QIC2-3	12119-401-630	IC-DUAL OP AMP	MC4558S	2	
RIC 1	12109-401-690	IC-REGURATOR	MC7812C	1	
KQ4L, KQ4R	12159-301-780	TR-DIGITAL	KSR1003	2	
KQ1, KQ5	12159-301-330	TR-DIGITAL	KSR2003	3	
CQ4					
BIC1, BIC3	12119-202-690	IC-SWITCH	LC4966	2	
QIC1	12109-401-160	IC-E/C VR	LC7535	1	
AIC1	12119-101-290	IC-POWER AMP	TA8207K	1	
KQ2L, KQ2R	12149-301-930	TR-DIGITAL	KSC1008	4	
KQ3L, KQ3R					
EQ1-2	12149-301-820	TR	KSC1222L	2	
KIC1	12119-102-050	IC-EQ	BA3312N	1	
JIC1	12119-102-240	IC-PRE AMP	BA3416BL	1	
RZD1, RZD4	12169-404-650	DIODE-ZN	500MW 12.4-14.1V UZ-13BM	2	
RZD2	12169-404-130	DIODE-ZN	500MW 5.3-5.9V UZ-5.6BM	1	
RZD3	12169-404-110	DIODE-ZN	RD5.6FB/UZP-5.6B	1	
CVR1	11249-102-100	VR-SEMI FIXED	SR19R B2.2K	1	

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
RR5	11048-587-471	R-METAL OXIDE	RS2P 470-J MINI	1	
RC2, RC8	11609-401-740	C-ELECTROLYTIC	CE04W 25V 2200M	2	
KLIL, KLIR	12429-306-113	COIL-BIAS TRAP	FB 895-85A	2	
LL1	12619-573-071	COIL-CAN	AG2.2MH F NON BLK	1	
SP TERMINAL	13303-500-610	TERMINAL-BOARD PUSH	4P PUSH TACK	1	
HI SPEED S/W	13529-204-250	SWITCH-PUSH	SPULIP, 2-4	1	
H/P JACK	13339-201-501	JACK-HEADPHONE	SHQ9085-01-010	1	
MIC JACK	13339-101-514	JACK-MIC	HSJ1403-01-010	1	
ANT TEMINAL	13304-504-010	ANT TER BOARD	A02-1064	1	
	12869-216-210	TRANS-POWER	57 x 28 SCM 6100 110V/220V	1	OPTION
	12869-216-220	TRANS-POWER	57 x 28 SCM 6100 220V	1	OPTION
	12869-216-230	TRANS-POWER	57 x 28 SCM 6100 120V	1	OPTION
	12869-216-240	TRANS-POWER	57 x 28 SCM 6100 240V	1	OPTION
	13059-808-246	POWER CORD ASS'Y	KKP-4 19C/B-161 W/S 220M/M	1	VDE (CP_2)
	13053-505-011	POWER CORD ASS'Y	BS6500 GTBS 2.5M W/S 220M/M	1	BS
	13059-808-301	POWER CORD ASS'Y	KKP-10W SPT-2#28 7FT220M/M W/S	1	EP_2 (POLARIZED)
	13059-808-212	POWER CORD ASS'Y	KP-560 LTSA-2F W/S 220M/M	1	AP_2
	13053-806-313	POWER CORD ASS'Y	KKP-10 SPT-1#18 7FT220M/M W/S	1	EP_2
	14709-241-110	FUSE	250V T315 MA	1	OPTION
	14709-241-140	FUSE	250V T500 MA	1	OPTION
	13599-502-020	SLIDE	PCB 00120353A 110V/220V	1	110/220V REGION

[FRONT PCB]

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
UIC 1	12109-323-900	IC-MICOM	TMP47C 420AF-8591	1	
UIC 2	12109-401-150	IC M/C DTS	LC7230-8250	1	
UQ4-5	12149-101-520	TR	KSA733, TAPE	2	
UQ3	12149-301-900	TR	KSC945, TAPE	1	
UQ1	12159-301-810	TR-DIGITAL	KSR 2007	1	
QIC2	12119-401-170	OP-AMP	MC4558C	1	
UQ2	12159-301-800	TR-DIGITAL	KSR1007, TAPE	7	
UQ7-14					
R-EYE	12199-101-050	REMOCON-EYE	GPIU501/501X/JMM-001	1	
UD1-9	12169-301-290	DIODE-SW	ISS53/IN4148 CT: 6PF	16	
UD13-14					
UD16-17					
UD19-21, 25					
D1-6	11239-115-010	VR-SLIDE (DOUBLE)	RS20H 123C-50KB	3	
QVR4	11239-115-020	VR-SLIDE (SINGLE)	RS20H 113C-50KW	1	
ULD1	12309-104-360	LED	SLB-55MG (GRN)	1	
ULD2	12309-104-380	LED	SLB-55VR 3 (RED)	1	
LCD1	12339-104-590	LCD-CD	SLA-0607C NON BACK LIGHTING	1	

LOCATION NO.	CODE MO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
LCD2	12339-104-610	LCD-DTS	SLA-120-026B	1	
FUNC. S/W	13519-201-280	SW-SLIDE	SSSV0242C-4P	1	
REMAIN, REPEAT	13559-201-040	SW-TACT	KHH 15910	2	
DISPLAY	13559-201-040	SW-TACT	KHH 15910	1	
MODE S/W	13529-203-930	SW-PUSH	SPEA TYPE 2C-2P	1	
UX 1	14534-504-040	CERAMIC-RESONATOR	CSA 4MG	1	
UX 2	14539-003-010	CRYSTAL-UNIT	HC18-U4.5MHZ	1	

[TUNER PCB]

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
FQ1, IQ6, IQ7	12139-301-280	TR	KSCI 222L	3	
IQ3, FQ2-3	12159-301-810	TR-DIGITAL	KSR2007	3	
IQ4	12159-301-800	TR-DIGITAL	KSR1007	1	
OQ1, OQ2, IQ1	12149-301-900	TR	KSC945-Y, TPAE	3	
TFP	14519-815-010	FM FRONT END PACK	CEA9-735H	1	
IQ5	12139-305-670	TR	KSC 2240	1	
UQ6	12159-301-330	TR-DIGITAL	KSR2003	1	
ID4, 5	12169-301-290	DIODE-SW	ISS53/IN4148 CT: 6PF	2	
IC3, IC11, FC5	11449-518-102	CONDENSER AXIAL-LEAD	50V UP050 B 102K	3	
ICF 1	14529-304-610	FILTER-CERAMIC	AH CM2-450BL	1	
ICF 2	14529-601-040	DISCRMINATE	CDA 10.7 MG1-A	1	
FCF 1	14529-301-420	FILTER-CERAMIC	SFE10.7 MA5L	1	
ICF 3	14539-504-050	RESONTOR	CSB 456 F18	1	
IZD 1	12169-404-130	DIODE-ZN	500mW 5.6V UZ-5.6BM	1	
IC13	12119-101-370	IC: IF + MPX	TA8132N	1	
	14509-250-010	ANT-AM LOOP	LM-500WR	1	
IL 1	12619-566-913	TRANS TEN CAN	AF 2.4MH FLW RED	1	LW BAND
IL 2	12619-411-000	AM(MW) ANT COIL	207BLRZ-K5026N-KR	1	
IT 1	12619-030-005	COIL-CAN	AC 450KHZ YEL	1	
OTC1, OTC 2	11829-512-030	C-TRIMMER	TZ03R 200F	4	
ITC1, ITC 2					
OL1	12619-047-202	COIL-CAN	AD510UH 220KHz BRN	1	LW BAND
OL2	12619-047-202	COIL-CAN	AD110UH 796KHz RED	1	
REMOCON ASS'Y	14909-500-410	REMOCON ASS'Y	SCM 6100 S/S CIP	1	
REMOCON ASS'Y	12109-310-810	IC-REMOCON	LC7461M	1	
REMOCON ASS'Y	12309-101-700	LED-INFRARED	ELI	2	
REMOCON ASS'Y	14539-504-030	CERAMIC-RESONATOR	CSB 455EBL	1	
REMOCON ASS'Y	12149-301-900	TR	KSC 945-Y, TAPE	1	

[CD PCB]

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
IC2001-2	12119-401-880	IC DRIVE	LA6530	2	
IC2004	12119-401-630	IC DUAL OP AMP	MC4558S	1	
IC2450	12109-310-890	IC ANALOG SIGNAL PROCESSOR	LA9200	1	
IC2451	12109-310-760	IC DIGITAL SIGNAL PROCESSOR	LC7860N	1	
IC2452	12109-401-050	IC S-RAM	LC3517 BML-15	1	
IC2453	12109-310-770	IC D/A CONVERTER	LC7880	1	
IC2601	12119-401-210	IC OP-AMP	NJM 3403 AD	1	
IC2701	12119-601-170	IC-VOLT REGULATOR	LM7805CT/L78M05	1	
IC2801	12119-201-930	IC OP-AMP	NJM3404S	1	
Q1003, Q2801 Q2601-2	12139-302-660	TR	KSC945-L	4	
Q2702	12149-401-070	TR	KSD 73-Y	1	
D2001-7 D2601, D2702 D2801 D3001-2	12169-301-290	DIODE-SW	ISS53/IN4148	12	
D2802	12169-403-030	DIODE-ZN	RD 2.7 EB 1	1	
D2350	12169-501-190	DIODE-VARICAP	SVC 211SP	1	
VR2351-5	11249-102-070	VR-SEMI, FIXED	SR19RB 100K	5	
FL2350	14529-414-020	FILTER-LPF	FB-10D 42529704100	1	
CF2350	14539-502-330	CRYSTAL	8.6436MHZ	1	
L2602	12429-511-221	COIL-CHOKE-LEAD	220 μH	1	
L2603-4, L2801	12429-508-100	COIL-CHOKE	10 μH	3	
BC2601	14049-032-910	FERRITE BEED INDUCTOR	388/S	1	
R1001, R1011 R1003	11018-175-222	R-CARBON	RN 1/8T 2.2K-F	3	
R1002, R1004, R1012	11018-175-332	R-CARBON	RN 1/8T 3.3K-F	3	
UQ7 – 9, UQ11 – 12	12159-301-300	TR	KSR 1007/DTC 124ES	5	
UD16, UD19, UD20	12169-301-290	DIODE-SW	1SS53/IN4148, CT: 6PF	3	

[MECHANICAL PART]

NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
001	15009-516-710	FRONT-ASSY	S/S STANDARD	1	NO.1-20 ASS'Y
1	16000-526-810	CABINET-FRONT	HIPS BLK	1	
2	17642-526-330	DOOR-CASS, A	ABS BLK	1	
3	17654-553-910	WINDOW-CASS, A	PVC 1.0T	1	
4	17642-526-430	DOOR-CASS, B	ABS BLK	1	
5	17654-554-010	WINDOW-CASS, B	PVC 1.0T	1	
6	16674-548-510	SPRING-DOOR	PWR ø 0.8	2	
7	17642-526-560	DOOR-CD	ABS BLK SCM6100S/S CIP	1	BRAND: SAMSUNG
8	17654-553-810	WINDOW-CD	PVC 1.0T	1	
9	16674-559-310	SPRING-DOOR, CD, B	STS #27 ø 1.0	1	
10	16674-556-810	SPRING-DOOR, CD	STS #27 ø 1.2	1	
11	15009-506-810	HOLDER-CHUCK ASS'Y	MOLD TYPE	1	NO11A-11D ASS'Y
11A	16603-507-810	HOLDER GUIDE	ABS BLK	1	
11B	16603-508-010	GUIDE-120MM	ABS BLK	1	
11C	17622-501-110	GUIDE-80MM	ABS BLK	1	
11D	16674-553-710	SPRING-GUIDE	STS #27 ø 0.4	1	
12	17624-617-310	KNOB-EQ	ABS BLK	4	
13	17624-617-110	KNOB-EJECT	ABS BLK	1	
14	17624-617-510	GUIDE-DECK	ABS BLK	1	
15	17624-617-210	KNOB-LCD	ABS BLK	1	
16	15214-506-110	DAMPER-GEAR ASSY	BIG TYPE	1	
17	15214-506-010	DAMPER-GEAR ASSY	SMALL TYPE	2	
18	17654-554-310	WINDOW-REMOCON	PC 0.5T	1	
19	17654-554-110	WINDOW-TUNER	PVC 1.0T	1	
20	17654-554-210	WINDOW-LCD	PVC 1.0T	1	
21	19013-503-010	PCB-MAIN ASS'Y	G3SN (SANYO)	1	
22	15029-502-910	T/TABLE-ASS'Y	JP-980	1	
23	14909-500-410	REMOCON-ASS'Y			BRAND: SAMSUNG
24	17624-611-110	KNOB-CASS, REC	ABS BLK	1	
25	17624-612-810	KNOB-CASS, PLAY	ABS BLK	1	
26	17624-612-910	KNOB-CASS, REW	ABS BLK	2	
27	17624-610-610	KNOB-CASS, F/F	ABS BLK	2	
28	17624-610-620	KNOB-CASS, ST/EJ	ABS BLK	2	
29	17624-611-010	KNOB-CASS, PAUSE	ABS BLK	2	
30	17623-562-310	KNOB-CASS, PLAY, L	ABS BLK	1	

NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
31	16604-536-710	HOLDER-FM/ST	ABS BLK	1	
32	16603-508-810	HOLDER-LCD	ABS BLK	1	
33	16604-536-610	HOLDER-TUNER	ABS BLK	1	
34	17624-618-610	KNOB-PUSH	ABS BLK	2	
35	17624-617-410	KNOB-FUN.	ABS BLK	1	
36	14929-123-100	DECK TAPE	TN21ZSW448	1	
37	16624-568-810	BRKT-LEAF S/W	SBHG 0.8T	1	
38	16624-568-710	BRKT-TUNER PCB	SBHG 1.0T	1	
39	15009-516-810	BOTTOM-ASS'Y	SCM6100S/S CIP	1	NO39A-39B ASS'Y
39A	16000-526-910	CABINET-BOTTOM	HIPS BLK	1	
39B	16174-503-110	CUSHION-FOOT	HR-WRT 60HR SCM6100	4	
40	15009-528-010	CHUCK-PLATE ASS'Y	MOLD TYPE	1	NO. 40A-40E ASS'Y
40A	17623-563-810	CHUCK-PLATE	PC BLK	1	
40B	16624-561-610	BRKT-CHUCK	EGI 0.8T	1	
40C	14014-500-220	MAGNET-CORE	SR FERRITE	1	
40D	16844-518-520	SHEET-CHUCK	HYMERON SHEET 0.7T	1	
40E	16854-517-210	SHEET-MAGNET	PE 0.05T	1	
41		POWER-CORD		1	* 31 PAGE
42	16603-502-410	BAND-CORD WIRE	PP BLK	1	

CD DECK ASS'Y (G3SN SANYO: 19013 -503 -030)

NO	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	16622-500-510	BRKT-P/U	EGI 1.0T	1	
2	16623-502-910	BRKT-HOLDER P/U	EGI 1.0T	2	
3	14929-415-020	MECH-CD	KSM-150B-BM	1	
4	16804-518-310	RUBBER-P/U	CUSHION, BUTYL RUBBER	4	
5	16674-544-910	SPRING-MEMORY	SUS #27	1	
7	17048-130-061	SCREW-RH	M3 x 6 FE FZY	6	
8	16853-501-920	SHEET-SHIELD CD	MAIN: G3SN	1	
9	13014-575-210	PCB-MAIN	G3SN	1	
10	10000-257-010	GEAR-A	2-641-404-11	1	
11	10000-257-020	GEAR-B	2-641-403-11	1	
12	10000-257-030	GEAR-C	2-641-402-11	1	

[T/TABLE ASS'Y: 15029-502-910]

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
3	10000-451-003	LOCKER-ARM	PM40230, ACETAL	1	
4	10000-451-004	HINGE ASS'Y	PA40091	2	
5	10000-451-005	DUST COVER	PM20370, M13000TV	1	
6	10000-451-006	PLATE-CLUTCH	PM40211, ACETAL	1	
7	10000-451-007	GUIDE-CLUTCH	PM40221, ACETAL	1	
8	10000-451-008	LINK-ACTUATING	PZ40171, STS	1	
9	10000-451-009	SPRING-ADJUST	PZ40162, STS	1	
10	10000-451-010	LEVER-SWITCH	PM40051, ACETAL	1	
12	10000-451-012	CARTRIDGE	CP-40S-30	1	
13	10000-451-013	TONE ARM ASS'Y	PM20101, ABS	1	
15	10000-451-015	FEED ARM	PM30151, ACETAL	1	
17	10000-451-017	SWITCH-LEAF	LSB-1123A3	1	
19	10000-451-019	PULLEY-MOTOR	PL40170, MBsBDI	1	
20	10000-451-020	MOTOR	SHR2R6I	1	
22	10000-451-022	ADAPTER-EP	PM40030, ABS	1	
24	10000-451-024	BELT	PP4029, RC-WRT	1	
25	10000-451-025	PLATTER	PM20110, M13000TV	1	
26	10000-451-026	E-RING	E-6	1	
27	10000-451-027	CONNECTOR-5P	SC25-05HG	1	
28	10000-451-028	SLIDE SWITCH	DSS-1123	1	
29	10000-451-029	STYLUS	CP-385-10	1	

* IT MAY TAKE MORE THAN 3 MONTHS TO DEMAND AND SUPPLY THE ABOVE ASS'Y OR PARTS.

* IT IS IMPOSSIBLE TO SERVICE EXCEPT BEING REPLACED BY ONLY ABOVE ITEM.

[DECK ASS'Y] (TN-21 ZSW-448: 14929-123-100)

LOCATION NO.	CODE NO	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
		DECK ASS'Y			
11	10000-268-011	PAUSE LEVER	1921-14-55	2	
13	10000-268-013	PAUSE STOPPER	1921-14-11	2	
23	10000-268-023	LEAF SWITCH	MSW-1541T, 6401-01-149	2	
33	10000-268-033	MG ARM	1921-03-05	1	
35	10000-268-035	PINCH ROLLER ARM ASS'Y	1921-04-301	2	
38	10000-268-038	SENSING LEVER	1921-26-04	2	
39	10000-268-039	RF CLUTCH ASS'Y	1921-07-302	2	
40	10000-268-040	RF BELT	1921-07-03	2	
43	10000-268-043	FLYWHEEL ASS'Y	1921-09-304	1	
44	10000-268-044	FLYWHEEL ASS'Y	1921-09-303	1	
46	10000-268-046	GEAR PLATE ASS'Y	1921-26-501	2	
47	10000-268-047	CAM GEAR	1921-26-02	2	
49	10000-268-049	FF GEAR	1821-10-70	2	
51	10000-268-051	SUPPLY REEL ASS'Y	1921-05-304	2	
52	10000-268-052	TAKE UP REEL ASS'Y	1921-05-303	2	
53	10000-268-053	SENSER	1921-05-06	2	
58	10000-268-058	MOTOR PULLEY	1921-12-13	1	
59	10000-268-059	MAIN BELT	1821-12-22	2	
62	10000-268-062	EJECT SLIDE LEVER	1921-13-02	2	
64	10000-268-064	PACK SPRING	1821-10-93	2	
66	10000-521-009	R.P' HEAD	HY424700K	2	
67	10000-541-003	E HEAD	EMH-EA60B	1	
68	10000-502-011	MOTOR	EG530YD9B	1	
69	10000-268-069	RECORD SAFETY LEVER	1821-10-69	1	
87	10000-268-087	OPERATION LEVER	1821-31-07	11	

[REMOCON ASS'Y] (SCM 6100 S/S CIP: 14909-500-440)

NO.	CODE NO.	DESCRIPTION	SPECIFICATION	Q'TY	REMARK
1	16003-503-710	CABINET-TOP	HIPS BLK	1	
2	16003-503-810	CABINET-BOTTOM	HIPS BLK	1	
3	16034-504-110	COVER-BATTERY	HIPS BLK	1	
4	16624-571-110	BRKT-MAGNET	SBHG 0.5t	1	
5	13014-579-910	PWB-REMOCON	50 x 100 x 1.6T	1	
6	16153-501-810	RUBBER-KEY	RUBBER	1	
7	17644-515-610	FILTER-REMO	ACRYL SMOKE	1	
8	16674-556-310	SPRING-BATTERY	SUS 304 0.5t	1	
9	16674-556-110	SPRING-BATTERY,A	PBR 2-1/4H 0.5t	1	
10	16674-556-120	SPRING-BATTERY,B	PBR 2-1/4H 0.5t	1	

13. CAUTION FOR ELECTROSTATIC BREAKDOWN

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

The printed matter below is included in the repair parts. During repair, use the procedure in the printed matter.

The flexible board is easily damaged and should be handled with care.

The following method is an example for reference purposes.

1. Place a conductive sheet on the workbench. (The black sheet used as repair parts wrapping).
2. Place the set on the conductive sheet so that the chassis touches the sheet. (This makes it the same potential as the conductive sheet).
3. Place your hands on the conductive sheet. (This makes them the same potential as the sheet).
4. Remove the optical pick-up block.
5. Perform work on top of the conductive sheet. Be careful that clothing does not touch the optical pick-up block.

When opening or repairing the unit, the procedure for grounding as follows is required to prevent damage caused by static electricity.

1. Grounding for the human body (HAND)
   Be sure to put on a wrist-strap for grounding (with impedance lower than $10^8\,\Omega$) whose other end is grounded.
   The strap works to drain away the static electricity build-up on the human body.
2. Grounding for the work table
   Be sure to lay on the table a conductive sheet (with impedance lower than $10^9\,\Omega$) such as sheet of copper, which is grounded.
3. As static electricity build-up on clothes is not drainded away, be careful not to let your clothes touch the unit.
4. Handling the flexible board
   The flexible board is easily damaged and should be handled with care.